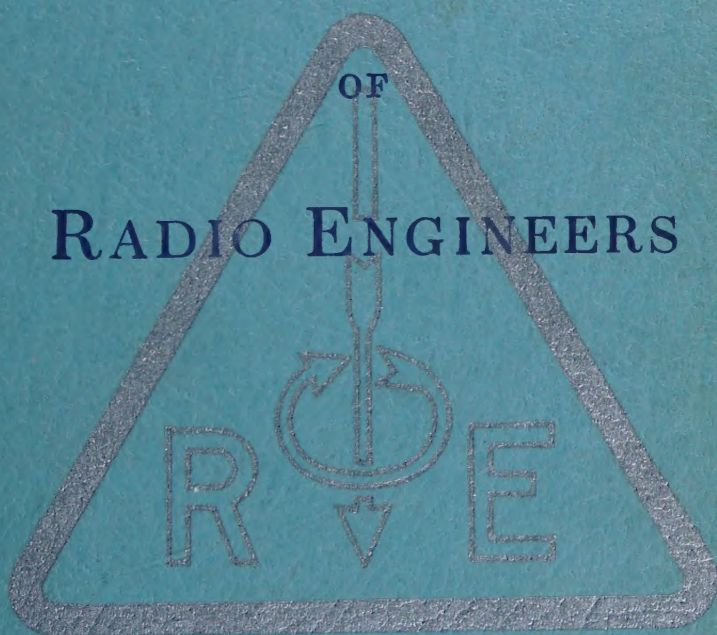


YEAR BOOK  
OF THE  
INSTITUTE  
OF  
RADIO ENGINEERS



1937

PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS  
VOLUME 25                      MARCH, 1937                      NUMBER 3, PART 2





YEAR BOOK  
OF THE  
INSTITUTE  
OF  
RADIO ENGINEERS



1937

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NEW YORK CITY  
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PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS  
VOLUME 25                      MARCH, 1937                      NUMBER 3, PART 2

## 1937 MEMBERSHIP LIST

The membership list contained in this year book has been prepared for the personal information and convenience of the Institute members.

Experience with past issues of this directory indicates that its use for non-Institute business is annoying. All members are urged to discourage its use for general circularization purposes.

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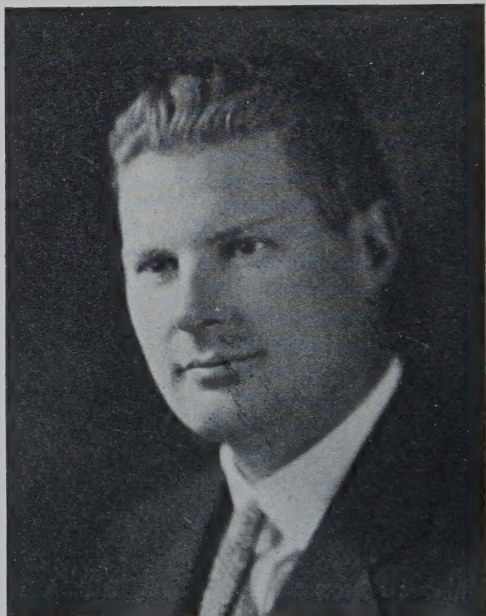
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# YEAR BOOK

## of the

## Institute of Radio Engineers

### 1937

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Name	Pres.	Vice Pres.	Sec'y.	Assist. Sec'y.	Treas.	Editor	Assoc. Editor	Member, Board of Directors
Alexanderson, E. F. W.	1921	1920						1917-18; 1920-23
Appleton, E. V.		1932						1932
Armstrong, E. H.								1916-19; 1921;
*Austin, L. W.	1914							1936 1914-17
Ballantine, Stuart	1935							1935-36
Barkhausen, Heinrich		1935						1935
Batcheller, Arthur								1928-32; 1934-36
Batsel, M. C.								1933
Bennett, E. M.								1923-25
Beverage, H. H.								1936
Bown, Ralph	1927	1926						1926-29
Bullard, W. H. G.								1916-1921
Cady, W. G.	1932					1929		1928-29; 1932-34
Caldwell, O. H.								1932-35
Chaffee, E. L.		1922						1922
Clark, G. H.							1914	
Clayton, J. M.			1928-29	1927-28				1928-29
Colpitts, E. H.		1927						1921-23
Conrad, Frank		1921						1927
Cutting, R. Fulton	1922							1921-24
Davis, G. S.								1915; 1917-19
de Forest, Lee	1930							1930-32
Dellinger, J. H.	1925	1924						1924-31
Dudley, B.				1930-31				
Eastham, Melville					1927-36			1922-36
Edwards, C. P.		1931						1931
Espenschied, Lloyd								1912-13; 1915- 26; 1931
Fuller, L. F.								1928
Goldsmith, A. N.	1928		1918-27			1913-28 1930-36		1912-36
Graham, V. M.								1935-36
*Grebe, A. H.								1924-26; 1928
Hammond, J. H., Jr.					1914			1912; 1914
Hazeltine, Alan	1936							1923-27; 1936
Heising, R. A.								1927-30; 1933-35
Hill, Guy								1914-16; 1918-20
Hogan, J. V. L.	1920	1916-19						1912-36
Horle, L. C. F.								1934-36
Horn, C. W.								1933-34
Houck, H. W.								1931-32
*Hubley, Warren					1915-16 1918-27			1915-16; 1918-27
Hull, L. M.	1933							1929-35
Jansky, C. M., Jr.	1934							1929-36
Jolliffe, C. B.								1936
Kennelly, A. E.	1916							1916-18
Kolster, F. A.								1933-35
Krumm, L. R.					1917			1917; 1921
Langmuir, Irving	1923							1923-25
Langley, R. H.				1914				
Lee, A. G.		1930						1930
Lewis, G. H.								1918-19; 1926; 1935
Manson, R. H.	1931							1927-33
Marriott, R. H.	1912	1913						1912-16; 1920- 22; 1926-32
McNicol, Donald	1926	1925						1919-28
Meissner, Alexander		1929						1929
Metcalfe, G. R.							1926-27	
*Morecroft, J. H.	1924	1923						1922-26
Murray, A. F.								1936

\* Deceased.

Name	Pres.	Vice Pres.	Sec'y.	Assist. Sec'y.	Treas.	Editor	Assoc. Editor	Member, Board of Directors
Nelson, E. L.								1932-36
Nichols, H. W.								1924-25
Pickard, G. W.	1913							1912-15
Pierce, G. W.	1918-19	1915						1915-21
Porter, C. J.				1928				
Poulsen, Valdemar		1936						1936
Pratt, Haraden								1935-36
*Pupin, M. I.	1917							1917-19
Reoch, A. E.								1925-27
Sarnoff, David			1915-17					1915-20
Shute, E. R.			1913-14					1933-34
Simon, E. J.								1912-15
*Squier, G. O.	1915	1914						1918-22
Stone, J. S.								1912; 1914-19
Taylor, A. H.	1929							1929-31
†Trapnell, T. T.					1914			
Turner, H. M.								1933-36
van der Pol, Balth.		1934						1934
Van Dyck, A. F.								1930-35
Weagant, R. A.								1912; 1914-17
Westman, H. P.			1930-36	1929				1930-36
Wheeler, H. A.								1934
Whittemore, L. E.		1928						1926-29; 1935-36
Wilson, William								1932-36
Zenneck, Jonathan		1933						1933

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Sectional Committee on Electrical Measuring Instruments.....	WILSON AULL
Sectional Committee on Graphical Symbols and Abbreviations for Use on Drawings.....	L. E. WHITTEMORE
Subcommittee on Communication Symbols.....	H. M. TURNER
Sectional Committee on Insulated Wires and Cables.....	T. M. HUNTER
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R. H. MARRIOT  
Member, 1912  
Fellow, 1915  
President, 1912



G. W. PICKARD  
Member, 1912  
Fellow, 1915  
Medal of Honor, 1926  
President, 1913

## GENERAL INFORMATION

### History

On May 13, 1912, the Institute of Radio Engineers was formed through the merging of two organizations active in the technical radio field. One of these was the Wireless Institute, the headquarters of which were in New York City and the other which was located in Boston was known as the Society of Wireless Telegraph Engineers. The former organization had a membership of fourteen at the start of 1909 and twenty-seven on January 1, 1912. The Society of Wireless Telegraph Engineers had eleven members on the first day of 1907 and forty-three on January 1, 1912. At the time of its foundation, the Institute of Radio Engineers had fewer than fifty members.

Prominent in the early work of the Society of Wireless Telegraph Engineers were John Stone Stone, Lee de Forest, and Fritz Lowenstein. Those identified with the initial work of the Wireless Institute included John S. Murphy, R. A. Somerville, Joseph D. Fountain, R. B. Respress, R. A. Cleve, John Gregg, E. Barnwell, Philip Farnsworth, Sidney L. Williams, R. H. Marriott, G. W. Pickard, Harry Shoemaker, and Eugene Thurston. The consolidation of these two societies and the initial work of organizing the Institute of Radio Engineers were done by Alfred N. Goldsmith, J. V. L. Hogan, and R. H. Marriott.

### General

The Institute of Radio Engineers functions solely to advance the art and science of radio communication. It includes among its members those who have played prominent parts in the development of radio in the United States as well as many noted radio engineers and scientists in other countries.

Membership in the Institute is strictly personal and several grades have been established. The requirements for admission to these grades is contained in the Institute's Constitution and the eligibility of the applicant is passed on by the Board of Directors. In many cases, the Admissions Committee recommends a course of action to the Board of Directors.

### Services

An important service which the Institute renders its membership is the publication of papers. In addition, many papers are presented at meetings where informal discussions may be effective in increasing the knowledge of those present. Standardization reports provide a mechanism for establishing recognized meanings of technical terms and methods of testing and rating equipment. By the awarding of honors and prizes, the publication of papers describing important developments is encouraged.



L. W. AUSTIN  
Associate, 1913  
Member, 1913  
Fellow, 1915  
Medal of Honor, 1927  
President, 1914  
Deceased, 1932



JOHN STONE STONE  
Member, 1913  
Fellow, 1915  
Medal of Honor, 1923  
President, 1915



## Publications

The PROCEEDINGS of the Institute of Radio Engineers is the name of the official publication. In it are published all of the papers, discussions, and communications which have been submitted for publication and approved by our Papers Committee and Board of Editors. The first issue was published in 1913 and the first three volumes were comprised of four issues each. Volume 4 through Volume 14 contain six numbers each and all the succeeding volumes are composed of twelve issues each. Over 1500 papers are contained in the twenty-four volumes which were published up to the end of 1936. Of these approximately one third were published during the last five years. The PROCEEDINGS is mailed without additional charge to all Institute members. The subscription price to nonmembers is \$10.00 per year.

Standardization reports have been issued since 1913. The early reports were confined to the definition of technical terms and presentation of standard graphical symbols. The more recent reports have gone considerably beyond this scope and include methods of testing and rating both equipment and antennas. Letter symbols for mathematical and other notation are also included. The last report issued is dated 1933 and includes all standards up to that time.

Year Books have been issued at irregular intervals. The first was published in 1914, and the second in 1916. The next seven were published annually between 1926 and 1932. This 1937 issue is the tenth to be published by the Institute.

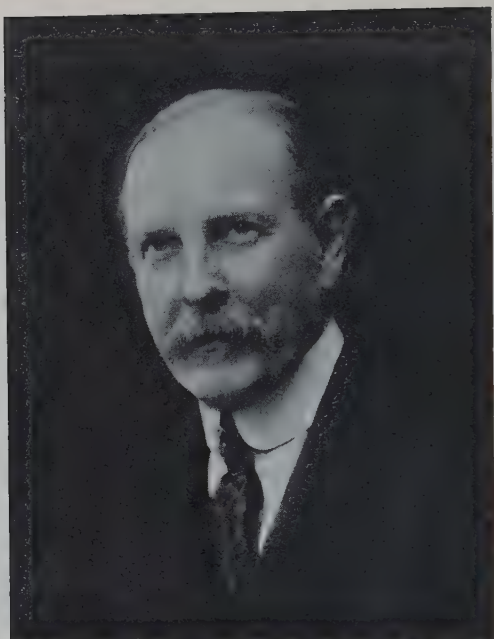
## Awards

Each year the Institute recognizes outstanding achievements in the radio communication field by the bestowal of two awards: one recognizes, in general, an extensive service over a period of years while the other is usually conferred for a more recent contribution.

### MEDAL OF HONOR

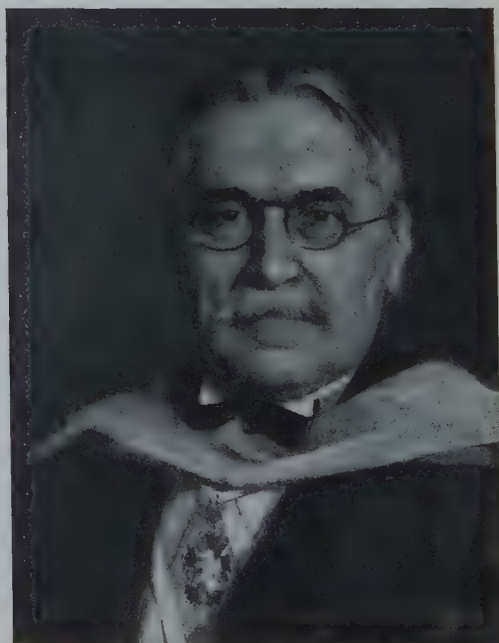
The Institute Medal of Honor is given in recognition of distinguished service in radio communication. It is awarded to one who has been responsible for an important advance in the science or art of radio communication. This advancement may be a single development or it may be a series of developments which in the aggregate have resulted in substantial improvements in radio communication.

The achievement may be a patented or unpatented invention. It may also be a theoretical analysis of a hitherto unexplained phenomenon of distinct importance to the radio art, though the application thereof need not be immediate. Preference will be given analyses which are directly applicable to the art.



A. E. KENNELLY

Associate, 1912  
Member, 1913  
Fellow, 1928  
Medal of Honor, 1932  
President, 1916



M. I. PUPIN

Fellow, 1915  
Medal of Honor, 1924  
President, 1917  
Deceased, 1935

Further, the advance may be a new system of traffic regulation or control, a new system of administration of a radio company or the radio communication service for military, transportation, or other organizations; a legislative program beneficial to the radio art or any portion of the operating or regulating features of the art.

The achievement for which this award is granted must preferably be completely and adequately described in a scientific or engineering publication of recognized standing and should have actually been applied to radio communication problems. A development may be of recent origin or otherwise and a series of developments may extend over a long period of years. Preference will be given to widely used and generally useful inventions.

The recipient of this award shall be named by the Board of Directors which will normally receive recommendations from the Awards Committee.

#### MORRIS LIEBMANN MEMORIAL PRIZE

The Morris Liebmann Memorial Prize, to perpetuate the memory of the late Colonel Morris N. Liebmann, is made possible through the generosity of E. J. Simon, a Fellow of the Institute. The award consists of the income from a gift of \$10,000, and is not a stated amount as it is the interest from the securities in which the principle is invested.

The recipient shall be a member of the Institute who shall have made public during the recent past an important contribution to radio communication. The contribution shall be completely and adequately described in a scientific or engineering publication of recognized standing.

How remote this publication may be is left to the judgment of the committee and will depend upon the rapidity with which the advancement is applied in practice, such application indicating its importance. Where several contributions are being considered, that which is widely used or is generally useful shall be given preference.

The recipient of this award is named by the Awards Committee, appointed annually by the Board of Directors.

#### RECIPIENTS OF MEDAL OF HONOR

E. H. Armstrong. . . . .	1917	Jonathan Zenneck. . . . .	1928
E. F. W. Alexanderson. . . . .	1919	G. W. Pierce. . . . .	1929
G. Marconi. . . . .	1920	P. O. Pedersen. . . . .	1930
R. A. Fessenden. . . . .	1921	G. A. Ferrié. . . . .	1931
Lee de Forest. . . . .	1922	A. E. Kennelly. . . . .	1932
John Stone Stone. . . . .	1923	J. A. Fleming. . . . .	1933
M. I. Pupin. . . . .	1924	S. C. Hooper. . . . .	1934
G. W. Pickard. . . . .	1926	Balth. van der Pol. . . . .	1935
L. W. Austin. . . . .	1927	G. A. Campbell. . . . .	1936



G. W. PIERCE

Member, 1913

Fellow, 1915

Medal of Honor, 1929

President, 1918-1919



JOHN V. L. HOGAN

Member, 1912

Fellow, 1915

President, 1920

## RECIPIENTS OF MORRIS LIEBMANN MEMORIAL PRIZE

L. F. Fuller.....	1919	W. G. Cady.....	1928
R. A. Weagant.....	1920	E. V. Appleton.....	1929
R. A. Heising.....	1921	A. W. Hull.....	1930
C. S. Franklin.....	1922	Stuart Ballantine.....	1931
H. H. Beverage.....	1923	Edmond Bruce.....	1932
J. R. Carson.....	1924	Heinrich Barkhausen.....	1933
Frank Conrad.....	1925	V. K. Zworykin.....	1934
Ralph Bown.....	1926	F. B. Llewellyn.....	1935
A. H. Taylor.....	1927	B. J. Thompson.....	1936

**Membership**

The Constitution of the Institute provides for several grades of membership, each of which has been established to meet the requirements of a particular group of members. The tabulation on page 25, gives for each membership grade the requirements as to age, experience, and references, together with entrance and transfer fees, and dues. Full details are contained in the first few articles of the Constitution which is published elsewhere in this Year Book.

Membership in the Institute includes a number of valuable features which are of inestimable importance to those active in the technical radio field and those connected with closely related lines of activity. Regardless of grade, each member receives the PROCEEDINGS regularly and copies of all Year Books and Standards reports when they are published. Notices of meetings at which papers are presented are forwarded to all members located in the territory which is immediately adjacent to the city in which the meeting is held. Convention and regional meetings are announced in the PROCEEDINGS. Additionally, membership enrolls one with those others who have indicated their interest in this field and whose activities therein are predominantly responsible for the progress which each year witnesses.

The grade of Fellow is reserved for those whose contributions to radio have raised them to a place of distinction among their fellow workers. To the Fellow is reserved the honor of serving as president or vice president of the Institute.

The Member grade is the professional grade and is open to recognized engineers and comparably qualified individuals who have served sufficiently long in their field to establish their standing.

The Associate and Junior grades are provided for those with a general interest in the field or whose technical qualifications are not such as to permit their acceptance as Members. The only difference between these two grades is that of age. Juniors have not reached their majority and are not eligible to vote.

E. F. W. ALEXANDERSON

Associate, 1913  
Member, 1913  
Fellow, 1915  
Medal of Honor, 1919  
President, 1921



*Harris and Ewing*



FULTON CUTTING

Member, 1915  
Fellow, 1921  
President, 1922



The Student grade of membership permits those doing undergraduate work in our engineering colleges to become affiliated with the Institute and receive its publications at a very low annual cost. Membership in this grade is sharply restricted both as to type of study, the amount of time devoted to it, and the period of years of enrollment in that grade.

Before applying for membership, the applicant should consider carefully the various grades of membership available and choose that one which best fits his qualifications. Extracts of the Institute Constitution pertaining to membership requirements for admissions, are given on application forms which may be obtained from the Institute.

When filling in the application form, the applicant should submit the names of those persons who have knowledge of his professional experience, in preference to those who have a high professional standing but cannot vouch for him. The personal signatures of references are not required.

### Identification of Membership Grade

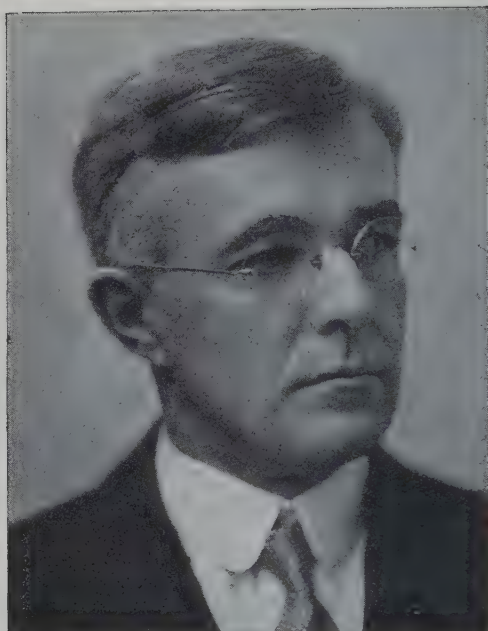


Two general means of identifying an Institute member and indicating his grade of membership are through the use of a membership badge and a group of abbreviations following his written name.

All Institute badges are of the design shown in the accompanying illustration. Badges are available in three forms; a screw back lapel button, a lapel pin, and a watch charm. The lapel button is approximately half the size of the illustration and may be purchased from the Institute office at \$2.75 each. The lapel pin is of approximately the same size as the illustration and is priced at \$3.00. The watch charm, finished on both sides, is provided with a ring to permit its suspension from a watch fob or chain and is also of the same size as illustrated. It is supplied at \$5.00. All badges are of 14 carat gold. The grade is indicated by the color of the background, the lettering being in gold. The only exception is in the Fellow grade in which the lettering is in blue. The following tabulation gives the color of the background for the emblem of that grade and also the abbreviations to be used for written communications:

Grade	Emblem	Abbreviation
Fellow	Gold	Fel. I.R.E.
Member	Blue	Mem. I.R.E.
Associate	Maroon	Assoc. I.R.E.
Junior	White	Jr. I.R.E.
Student	Green	Std. I.R.E.

All other methods of indicating membership are contrary to the expressed opinion of the governing body of the Institute. The use of



IRVING LANGMUIR

Associate, 1914  
Fellow, 1922  
President, 1923



J. H. MORECROFT

Associate, 1913  
Fellow, 1922  
President, 1924  
Deceased, 1934

the Institute emblem on personal or business stationery, cards, etc. is likewise not approved by the Board of Directors and members are requested to call such use to the attention of the secretary as is directed in the By-Laws of the Institute Constitution.

#### MEMBERSHIP REQUIREMENTS, DUES, ETC.

(For full particulars, see Constitution and By-Laws.)

Grade	Min. Age	Experience	References Required	En-trance Fee	Transfer Fee to Next Grade	Annual Dues
FELLOW	32	a. Radio engineer by profession, with distinction.	5 Fellows*	\$10	—	\$15
	32	b. Professor of science-engineering, radio distinction.				
	32	c. Original worker of notable service to radio.				
	32	d. Notable inventor of or contributor to radio.				
MEMBER	25	a. Radio engineer, 4 years, important radio work.	5 Fellows or Members*	5	\$5	10
	25	b. Teacher of radio science, 4 years, recognized school.				
	25	c. Allied arts, 4 years, qualified in radio engineering.				
	28	d. Allied arts, 7 years, important engineering work.				
ASSOCIATE	21	Interested in or connected with the study or application of radio science or the radio arts.	3 members or responsible nonmembers	3	2	6
JUNIOR	16	Interested in the study or application of radio science or the radio arts. (Eligibility for this grade ceases upon attainment of 21st birthday.)	3 members or responsible nonmembers	1	2	4
STUDENT	—	Full-time student in university or technical school of recognized standing, pursuing regular engineering course leading to a degree.	Member of faculty of school	—	3†	3

\* Where the applicant is so located as not to be known personally to more than three sponsors of the designated grade, two names of responsible nonmember sponsors may be included to complete the application.

† This assumes transfer to Associate grade; \$1.00 if transfer is to Junior.

### Membership Certificates

Membership cards are issued to those requesting them of the secretary. Similarly, diplomas are prepared and forwarded to Members and Fellows who desire them.

### Meetings

Between eight and ten Institute meetings are held in the Engineering Societies Building, 33 West 39th Street, New York City, each year. Usually, no meetings are held during the summer months. Meetings are devoted to the presentation of technical papers and their discussion. Normally, the meetings are held on the first Wednesday of each month.

### Sections

Where a sufficient number of Institute members are located in a relatively small territory, a section of the Institute may be established.

JOHN HOWARD DELLINGER  
Fellow, 1923  
President, 1925



*Harris and Ewing*



DONALD McNICOL  
Associate, 1914  
Member, 1914  
Fellow, 1924  
President, 1926



Twenty such sections are now in active operation in the United States and Canada. The following list gives the name of each section, the name of the chairman and the name and address of the secretary-treasurer.

- ATLANTA—Chairman, N. B. Fowler; Secretary, G. S. Turner, Federal Communications Commission, 411 Federal Annex, Atlanta, Ga.
- BOSTON—Chairman, E. L. Bowles; Secretary, Roland G. Porter, Northeastern University, Boston, Mass.
- BUFFALO-NIAGARA—Chairman, George C. Crom; Secretary, E. C. Waud, 235 Huntington Ave., Buffalo, N. Y.
- CHICAGO—Chairman, J. K. Johnson; Secretary, V. J. Andrew, 7221 San Francisco Ave., Chicago, Ill.
- CINCINNATI—Chairman, G. F. Platts; Secretary, A. P. Richards, Crosley Radio Corporation, 1329 Arlington St., Cincinnati, Ohio.
- CLEVELAND—Chairman, R. A. Fox; Secretary, R. L. Kline, 132 Normal Ave., Kent, Ohio.
- CONNECTICUT VALLEY—Chairman, F. H. Scheer; Secretary, R. H. Freck, 39 Eldridge St., Springfield, Mass.
- DETROIT—Chairman, R. L. Davis; Secretary, H. S. Gould, 214 Tuxedo Ave., Detroit, Mich.
- EMPORIUM—Chairman, M. I. Kahl; Secretary, R. N. Palmer, Hygrade Sylvania Corporation, Emporium, Pa.
- INDIANAPOLIS—Temporary Secretary-Treasurer, I. M. Slater, P. R. Mallory and Company, 3029 E. Washington St., Indianapolis, Ind.
- LOS ANGELES—Chairman, Douglas Kennedy; Secretary, F. G. Albin, United Artists Studios, 1041 N. Formosa Ave., Los Angeles, Calif.
- MONTREAL—Chairman, A. M. Patience; Secretary, W. R. Wilson, Canadian Marconi Company, Mount Royal, Que., Canada.
- NEW ORLEANS—Chairman, L. J. N. Du Treil; Secretary, G. H. Peirce, Electrical Research Products, Inc., 1631 Canal Bank Bldg., New Orleans, La.
- PHILADELPHIA—Chairman, Irving Wolff; Secretary, R. L. Snyder, 103 Franklin Rd., Glassboro, N. J.
- PITTSBURGH—Chairman, Branko Lazich; Secretary, W. P. Place, Curtis St., R. D. 1, Wilkinsburg, Pa.
- ROCHESTER—Chairman, L. A. Du Bridge; Secretary, H. A. Brown, 89 East Ave., Rochester, N. Y.
- SAN FRANCISCO—Chairman, V. J. Freiermuth; Secretary, C. J. Penther, 1000 Aileen St., Oakland, Calif.
- SEATTLE—Chairman, J. W. Wallace; Secretary, R. O. Bach, Pacific Telephone and Telegraph Company, 820 Fairview Ave., N., Seattle, Wash.
- TORONTO—Chairman, B. de F. Bayly; Secretary, H. P. Knap, Stromberg-Carlson Tel. Mfg. Company, 211 Geary St., Toronto, Ont., Canada.
- WASHINGTON—Chairman, W. B. Burgess; Secretary, E. H. Rietzke, 3308 14th Ave., N. W., Washington, D. C.

## Organizing a Section

In organizing a new section of the Institute, some difficulties may be avoided and the efforts of the organizers made more effective by observing the suggestions which follow:

(a) The Constitution for Sections which appears elsewhere in this book should be read carefully as should Article IX of the Institute Constitution and Sections 26-35 and Section 50 of the By-Laws of the Institute Constitution. Practically all necessary information as to the requirements and privileges of sections is contained in the pertinent portions of these documents listed above which comprise about six pages of reading material.

(b) A small group of local members who are interested in the forma-



RALPH BOWN  
Member, 1922  
Fellow, 1925  
Morris Liebmann Memorial prize, 1926  
President, 1927



ALFRED N. GOLDSMITH  
Member, 1912  
Fellow, 1915  
President, 1928

tion of a section should act as a temporary organization committee. There may be obtained from Institute headquarters a list of all members of the Institute residing in the probable territory which would be assigned to the section. This will permit the committee to canvass existing members and obtain opinions as to the probable support they will give the proposed section, also, it will disclose the lack of membership on the part of acquaintances whose interests might logically indicate the desirability of their becoming affiliated with the Institute. Membership applications may be distributed to this latter group.

(c) Although no minimum number of members is prescribed in the Constitution and By-Laws, at least twenty-five Fellows, Members, and Associates residing in the proposed territory must sign a petition for the formation of a section. The Board of Directors would normally not look with favor on the establishment of a section if in the proposed territory there did not reside at least fifty members of the Institute and preferably seventy-five. At least five of these should be of the Member or Fellow grade. Such a membership is an excellent indication that there will be a sufficient number to guarantee satisfactory attendance at meetings and that there will not be a lack of advanced engineers to assume the responsibility of guiding the operation of the section.

(d) An organization meeting of the Institute members in the proposed section territory should be called. The notification of the meeting should contain a statement of its purpose and the fact that signatures of active members will be requested on a petition for the establishment of a section. In order to stimulate attendance at this meeting, it is essential that a technical paper be presented as it is exceedingly difficult to obtain a satisfactory turnout of people for a purely business meeting. A petition may read as follows:

Board of Directors,  
Institute of Radio Engineers,  
330 West 42nd Street,  
New York, N. Y.  
Gentlemen:

We, the undersigned Fellows, Members, and Associates, of the Institute of Radio Engineers residing within the city of ..... and its environs, respectfully petition for the establishment of a new section to be known as The ..... Section of the Institute of Radio Engineers which is to be operated in conformance with the governing documents and rules of the Institute.

Unless the names on the petition are checked against membership lists supplied from Institute headquarters it is desirable that thirty or thirty-five names be obtained before the petition is forwarded to headquarters. In many cases, signatures of nonmembers are included in these petitions. The petition and a report of the activities of the meeting should be forwarded to the Institute office.

(e) A petition for a section will be considered by the Sections Committee and then passed to the Board of Directors with the recommenda-



A. HOYT TAYLOR

Associate, 1916  
Fellow, 1920  
Morris Liebmann Memorial prize, 1927  
President, 1929



LEE DE FOREST

Member, 1914  
Fellow, 1918  
Medal of Honor, 1922  
President, 1930

*Joseph Capitaine*



tions of that committee. If possible, the petition should be submitted a few weeks before the convention so that it may be acted on by the committee at its annual meeting which is attended by representatives of the sections. Information on the date of the convention may be obtained from the secretary if it has not been announced.

(f) On approval of the Board of Directors, the first official meeting of the section should be called. Permanent officers should be elected and standing committees appointed.

(g) At least one By-Law to the Section Constitution should be established. This fixes the date of the annual meeting of the section at which new officers are elected.

(h) As a portion of the section income is computed on the basis of the number of meetings held, it is essential that the secretary forward a report of each meeting to Institute headquarters. No funds will be forwarded to sections which are delinquent in submitting financial statements at the end of each calendar year.



R. H. MANSON

Member, 1923  
Fellow, 1930  
President, 1931



W. G. CADY

Associate, 1914  
Fellow, 1927  
Morris Liebmann Memorial prize, 1928  
President, 1932

REPORT OF THE SECRETARY  
INSTITUTE OF RADIO ENGINEERS  
1936

THIS report is submitted to the membership so it may be kept informed as to the more important Institute activities. Much of the progress which it relates has been due to the unselfish activities of Institute members who have served on the Board of Directors and the numerous Institute committees. The efforts which they have given to this work deserve the commendation of the entire membership.

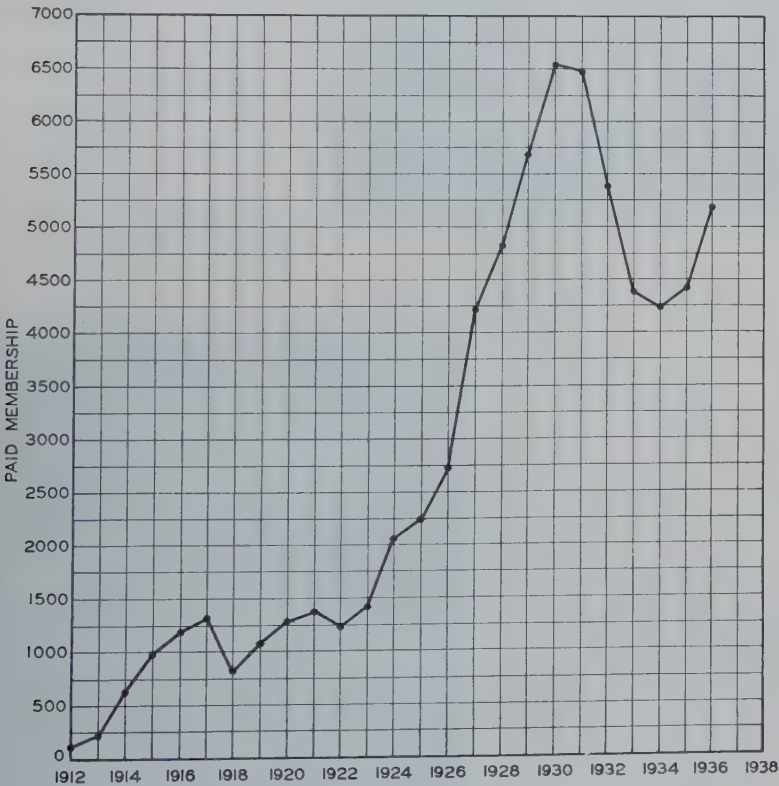


FIG. 1

GENERAL

The end of 1936 showed increases in the paid membership and the quantity of material published in the PROCEEDINGS. Receipts for the year have exceeded disbursements and the market value of securities owned by the Institute has appreciated.



L. M. HULL

Junior, 1917  
Associate, 1919  
Member, 1927  
Fellow, 1928  
President, 1933



C. M. JANSKY, JR.

Associate, 1918  
Member, 1925  
Fellow, 1928  
President, 1934

*Harris and Ewing*



## MEMBERSHIP

The paid membership at the end of 1936 totaled 5195 as compared with 4419 at the end of 1935, an increase of 17.5 per cent. There was a 4.2 per cent gain in membership during 1935 while the three prior years showed substantial losses. Fig. 1 is a record of the Institute membership over the life of the organization.

Of the 5195 members at the end of 1936, 1208 resided in foreign countries, a total of 23.2 per cent. Data on the geographical distribution of members are contained in the subjoined table.

## DISTRIBUTION OF INSTITUTE MEMBERSHIP AS OF DECEMBER 31, 1936

3943	Continental United States	3	Iraq
5	Alaska	7	Irish Free State
1	Arabia	28	Italy
18	Argentina	119	Japan
1	Ascension Island	3	Latvia
68	Australia	1	Lithuania
3	Austria	3	Malta
5	Belgium	8	Mexico
1	Bolivia	14	Netherlands
14	Brazil	32	New Zealand
1	British Honduras	1	Nicaragua
5	British West Indies	1	Norway
178	Canada	1	Palestine
3	Canal Zone	1	Paraguay
1	Ceylon	4	Peru
2	Chile	7	Philippine Islands
52	China	8	Poland
2	Colombia	7	Porto Rico
2	Costa Rica	2	Portugal
3	Cuba	1	Prince Edward Island
1	Cyprus	2	Rumania
6	Czechoslovakia	11	Scotland
15	Denmark	1	Siam
1	Ecuador	9	Spain
4	Egypt	5	Straits Settlements
378	England	1	Sumatra
1	Estonia	12	Sweden
4	Federated Malay States	10	Switzerland
35	France	1	Tanganyika Territory
1	French Somaliland	1	Tasmania
1	Friendly Islands	1	Turkey
15	Germany	33	Union of South Africa
1	Greece	3	Uruguay
2	Guam	7	U.S.S.R.
17	Hawaiian Islands	3	Venezuela
2	Honduras	6	Wales
5	Hungary		
41	India	5195	

All applications for Member and Fellow grade are considered by the Admissions Committee. After approval, the names are posted in the PROCEEDINGS and a month later final action is taken by the Board of Directors.

The Admissions Committee examined and rejected one application for admission to the grade of Fellow. It approved seven applica-



STUART BALLANTINE

Associate, 1916  
Fellow, 1928  
Morris Liebmann Memorial prize, 1931  
President, 1935



ALAN HAZELTINE

Associate, 1916  
Member, 1918  
Fellow, 1921  
President, 1936

tions for transfer to Fellow of the ten which were submitted to it. There were thirty-two applications for admission to Member grade and half of these were approved. Of forty-two requests for transfer to Member, thirty-six were approved. The number of applications for these higher grade memberships has increased substantially over those received annually during the past few years.

A tabulation showing the distribution of members throughout the various grades of membership will be found at the end of the catalog of membership which is the dominant portion of this Year Book.

There were 871 applications for new memberships received during 1936 as compared with 664 for 1935.

### PROCEEDINGS

Volume 24 of the PROCEEDINGS contained 1627 pages of editorial material and is slightly larger than its predecessor. Fig. 2 is a graph

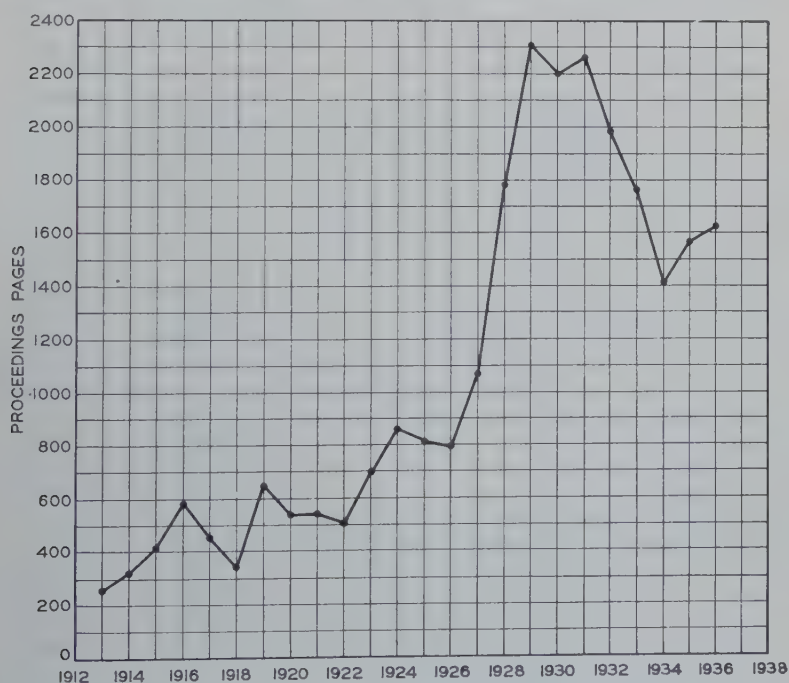


FIG. 2

showing the number of pages appearing in the PROCEEDINGS over the period of its publication. About 30 per cent fewer pages were published in 1936 than during the peak year of 1929. At the start of 1936 a large quantity of material was awaiting publication and insufficient funds were available for its immediate use. The last issue of 1936 contained all of the material which had been approved and was available for publication at the time.

The Papers Committee and Board of Editors have complete responsibility for the technical material published. During the year, the Papers Committee reviewed eighty manuscripts and the Board of Editors examined one hundred. Seventy-eight papers were accepted for publication, seventeen were rejected, and twelve were returned to authors for revision. In addition, there were twenty book reviews prepared and published.

## SECTIONS

At the annual meeting of the Sections Committee which was held in Cleveland, Ohio, two applications for the establishment of new sections were approved and submitted to the Board of Directors. These sections were established by action of the Board of Directors at its meeting on December 2. One of the sections has headquarters at Indianapolis, Indiana, and the other at Montreal, Quebec.

Some data on the membership and meetings of sections are given in the following tabulation.

	<i>Membership December 31, 1936</i>	<i>Meetings Held 1934 1935 1936</i>	<i>Average Attendance 1936</i>	<i>Per cent of Av- erage Attend- ance to Total Membership</i>
Atlanta.....	24	6 9 10	18	75
Boston.....	205	6 8 5	74	36
Buffalo-Niagara.....	44	9 9 7	49	111
Chicago.....	223	6 8 10	114	51
Cincinnati.....	105	9 9 9	86	83
Cleveland.....	85	7 9 8	51	60
Connecticut Valley.....	101	9 7 8	40	40
Detroit.....	96	10 10 10	88	93
Emporium.....	83	— 1 14	63	76
Indianapolis*.....	43	— — —	—	—
Los Angeles.....	188	10 11 11	53	29
Montreal*.....	53	— — —	—	—
New Orleans.....	21	3 — 1	20	95
Philadelphia.....	376	8 9 9	261	70
Pittsburgh.....	51	8 9 8	29	57
Rochester†.....	44	9 12 10	—	—
San Francisco.....	169	9 10 14	51	31
Seattle.....	40	10 9 8	53	132
Toronto.....	86	8 8 8	76	91
Washington.....	200	10 10 11	66	34
Totals.....	2237	137 148 161	1192	58‡

\* Established December, 1936.

† Six meetings credited for 1936 Fall Meeting. All meetings held jointly with other societies.

‡ Average does not include Indianapolis, Montreal, and Rochester.

## MEETINGS

Our sections held one hundred and sixty-one meetings during the year and in addition there were nine New York meetings, a Rochester Fall Meeting, and an Annual Convention.

The Eleventh Annual Convention was held in Cleveland, Ohio, on May 11, 12, and 13. The attendance totaled five hundred and eighty-



nine of whom sixty-one were ladies. The Institute Medal of Honor and the Morris Liebmann Memorial Prize were awarded during the banquet which was attended by three hundred and sixty members and guests.

The Rochester Fall Meeting was held on November 16, 17, and 18 and showed a total registration of four hundred and fifty-five. Fifteen papers were presented and an exhibition was held.

### BOARD OF DIRECTORS

The government of the Institute is invested in the Board of Directors. Eight meetings were held during 1936. As the Board has complete control over all policies and activities of the Institute, the scope of its work is too great to permit detailed consideration in this report. Its effectiveness as a governing body is amply demonstrated by the various activities which this report covers.

### STANDARDIZATION

Twenty-three meetings of committees engaged in standardization work were held.

The Technical Committee on Electroacoustics has completed preliminary reports on definitions and on the testing of loud-speakers. These have not yet received final approval of the Standards Committee.

The Technical Committee on Electronics has revised the 1933 report and added new material to its proposed standards which have been approved by the Standards Committee. This material will be considered by the Board of Directors early in 1937.

The Technical Committee on Radio Receivers has completed the major portion of its report but will require additional time during 1937 for its completion.

The Technical Committee on Transmitters and Antennas completed late in the year its reports on the testing of transmitters and antennas. This material together with definitions will be submitted to the Standards Committee for review early in 1937.

The above technical committees and the Technical Committee on Television and Facsimile prepared progress reports on developments in their fields during 1936. These were edited by the New York Program Committee and in addition to being presented at the annual meeting of the Institute have appeared in the PROCEEDINGS.

### COMMITTEE ACTIVITIES

The Institute committees held fifty-three meetings during the year and the effectiveness of the operation of a number of these has been amply covered in the previous material. The activities of some of

those that have not been portrayed are given briefly in the following items.

### *Awards Committee*

The Awards Committee submitted to the Board of Directors its recommendations in regard to the two annual awards issued by the Institute. The Institute Medal of Honor was awarded to George A. Campbell for his contributions to the theory of electrical networks. The Morris Liebmann Memorial Prize was presented to B. J. Thompson for his contribution to the vacuum tube art in the field of very high frequencies.

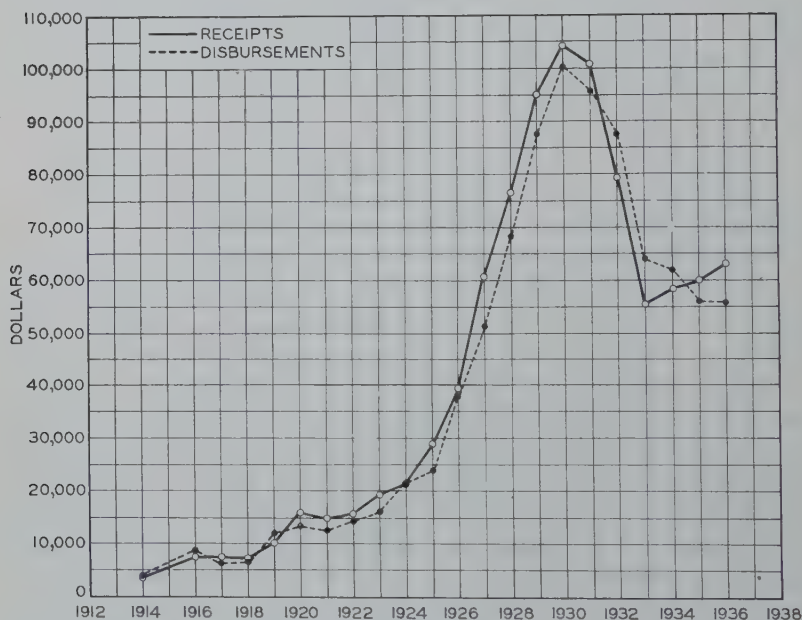


FIG. 3

### *Broadcast Committee*

The Broadcast Committee prepared a report which was presented by President Hazeltine at the October hearing of the Federal Communications Commission and published in full in the November, 1936, issue of the PROCEEDINGS.

### *Constitution and Laws Committee*

A general revision of the Institute Constitution was undertaken by the Constitution and Laws Committee. Some additional problems were assigned to it by the Board of Directors late in the year and prevented the submission of a complete report.

*New York Program Committee*

In addition to arranging for the papers presented at New York meetings, this committee had charge of the preparation of the annual review of radio which was presented before the Institute in New York and published in the PROCEEDINGS, February, 1937.

*Nominations Committee*

The Nominations Committee submitted to the Board a slate of candidates for the 1936 election of officers.

*Tellers Committee*

The ballots cast in the 1936 election of officers were counted by this committee.

## FINANCES

A balance sheet prepared by the auditors who examined the Institute books will be found at the end of this report and indicates a definite improvement in fiscal conditions. Fig. 3 shows receipts and disbursements for the life of the Institute and in order that these figures may be significant of actual operating conditions, all items concerning donations, loans, money invested in, or received from the sale of securities have been omitted.

## HEADQUARTERS STAFF

The headquarters staff now comprises fifteen persons, twelve of whom have served the Institute for five years or longer.

## DEATHS


With deep regret we list below the names of those whose membership has been terminated by death.

Asquith, Edward	Hillebrand, W. A.	Stein, Adam, Jr.
Blenheim, William J.	Jamison, Alexander	Threlkeld, Howard M.
Cassler, Howard R.	Kintner, S. M.	Thynne, Arthur W.
Derry, F. R.	Orton, William H.	Todd, William F.
Greig, John W.	Patterson, C. F.	Woodrow, William
Herd, James F.	Peck, George T.	

## ACKNOWLEDGMENT

Acknowledgment is made of the very fine co-operation and support which the Secretary has received from the Board of Directors, the numerous committees, and the headquarter's staff.

Respectfully submitted,



HAROLD P. WESTMAN, Secretary

**The Institute of Radio Engineers, Inc.**  
**COMPARATIVE BALANCE SHEET**  
**December 31, 1936 and 1935**

	December 31, 1936	December 31, 1935	INCREASE DECREASE
<b>ASSETS</b>			
<b>CURRENT ASSETS</b>			
Cash.....	\$23,787.78	11,932.87	11,854.91
<b>ACCOUNTS RECEIVABLE—CURRENT</b>			
Dues.....	420.00	440.00	20.00
Advertising.....	265.00	403.38	138.38
Reprints.....	72.05	156.19	84.14
Inventory.....	7,500.99	8,133.07	632.08
Accrued Interest on Investments.....	308.33	408.33	100.00
<b>TOTAL CURRENT ASSETS.....</b>	<b>32,354.15</b>	<b>21,473.84</b>	<b>10,880.31</b>
<b>INVESTMENTS—AT COST.....</b>	<b>37,470.37</b>	<b>41,606.62</b>	<b>4,136.25</b>
(Market Value 12/31/36 \$26,441.25)			
<b>FURNITURE AND FIXTURES AFTER RESERVE FOR DEPRECIATION.....</b>	<b>2,054.63</b>	<b>2,408.91</b>	<b>354.28</b>
<b>PREPAID EXPENSES</b>			
Unexpired Insurance Premiums.....	67.32	45.99	21.33
Stationary Inventory—Estimated.....	200.00	200.00	
Convention Expense.....		73.77	73.77
Salaries.....		220.68	220.68
<b>TOTAL ASSETS.....</b>	<b>\$72,146.47</b>	<b>66,029.81</b>	<b>6,116.66</b>
<b>LIABILITIES AND SURPLUS</b>			
<b>ACCOUNTS PAYABLE.....</b>	<b>\$ 390.05</b>	<b>204.61</b>	<b>185.44</b>
<b>SUSPENSE.....</b>	<b>24.64</b>	<b>13.77</b>	<b>10.87</b>
<b>ADVANCE PAYMENTS</b>			
Dues.....	1,500.53	1,397.80	103.23
Subscriptions.....	3,524.48	3,233.20	291.28
Advertising.....	59.33	53.28	6.05
Convention.....	25.00		25.00
<b>TOTAL LIABILITIES.....</b>	<b>5,524.03</b>	<b>4,902.16</b>	<b>621.87</b>
<b>FUNDS</b>			
Morris Liebmann Memorial Fund, Principal and Unexpended Income.....	10,077.87	10,077.87	
Associated Radio Manufacturers Fund.....	1,997.80	1,997.80	
<b>TOTAL FUNDS.....</b>	<b>12,075.67</b>	<b>12,075.67</b>	
<b>SURPLUS</b>			
Balance, January 1.....	49,051.98	49,254.97	202.99
Add—Operating Profit (Deduct Loss) for Year.....	5,494.79	202.99	5,697.78
<b>SURPLUS—DECEMBER 31.....</b>	<b>54,546.77</b>	<b>49,051.98</b>	<b>5,494.79</b>
<b>TOTAL LIABILITIES AND SURPLUS.....</b>	<b>\$72,146.47</b>	<b>66,029.81</b>	<b>6,116.66</b>

Patterson and Ridgeway, Certified Public Accountants  
74 Trinity Place, New York, N. Y.



The Institute of Radio Engineers  
(Incorporated May 13, 1912)

## CONSTITUTION

ADOPTED AT THE FIRST MEETING OF THE INSTITUTE OF RADIO ENGINEERS  
MAY 13, 1912. AMENDED NOVEMBER 2, 1914, DECEMBER 5, 1915,  
AND OCTOBER 7, 1931.

### ARTICLE I

#### NAME AND OBJECT

SEC. 1—The name of this organization shall be The Institute of Radio Engineers, Incorporated.

SEC. 2—Its objects shall be the advancement of the theory and practice of radio and allied branches of engineering and of the related arts and sciences, their application to human needs, and the maintenance of a high professional standing among its members. Among the means to this end shall be the holding of meetings for the reading and discussion of professional papers and the publication of papers, discussions, communications, and such other matters as may be appropriate for the fulfillment of its objects.

### ARTICLE II

#### MEMBERSHIP

SEC. 1—The membership of the Institute shall consist of:

- a. Fellows, who shall be entitled to all rights and privileges of the Institute.
- b. Members, who shall be entitled to all rights and privileges of the Institute except the right to hold the offices of President and Vice President.
- c. Associates, who shall be entitled to all rights and privileges of the Institute except the right to hold any elective office specified in Article V.
- d. Juniors, who shall be entitled to attend all meetings and to receive copies of all Institute publications.
- e. Students, who shall be entitled to attend all meetings and to receive copies of all Institute publications.

SEC. 2—A Fellow shall not be less than thirty-two years of age and shall be either:

- a. A radio engineer by profession. As such he shall have attained distinction in his profession and shall be eminently qualified to take responsible charge of important radio work and shall have been in the active practice of his profession for at least ten years, and shall have had responsible charge of important radio work for at least three years.

When the applicant holds in a principal national society of an allied branch of engineering or science membership in a grade for which the qualifications indicate a standing equal to that required for the grade of Fellow herein, such membership shall be considered equivalent to three years of the required ten years of active practice of the radio profession.

- b. A professor of physical science or of electrical engineering. As such he shall have attained special distinction as an expounder of the principles of radio science and of radio engineering and shall have had at least ten years experience as a teacher of physical or electrical subjects and shall have had responsible charge, for three years, of a radio course in a school of science or engineering of recognized standing. Any experience, as defined in paragraph "a," that the applicant may have had as a radio engineer shall be considered the equivalent of the same number of years of experience as a "teacher of radio subjects."

- c. A person who has done notable original work of service to radio engineering of a character to give him a recognized standing at least equivalent to that required for Fellow under paragraph "a" or "b."

- d. A person regularly engaged in radio work for at least ten years, who, by invention or by special proficiency in contributions to the radio science or the radio arts or radio literature, has attained a standing at least equivalent to that required for Fellow under paragraph "a" or "b."

SEC. 3—A Member shall not be less than twenty-five years of age and shall be either:

- a. A radio engineer by profession. As such, under general direction he shall have designed and taken responsibility for important radio engineer work or science and shall have been in the active practice of his profession for at least four years.

When the applicant holds in a principal national society of an allied branch of engineering, mem-

bership of a grade for which the qualifications indicate a standing equal to that required for the grade of Member herein, such membership shall be considered equivalent to two years of the requisite four years of active practice of the radio profession.

b. A teacher of physical science or of electrical engineering. As such he shall have had at least four years experience as a teacher of radio subjects in a school of recognized standing. Any years of experience the applicant may have had as a radio engineer shall be considered the equivalent of the same number of years' experience as a "teacher of radio science or of radio engineering."

c. A person regularly employed in radio or closely allied work for at least four years, who by invention or proficiency in radio science, the radio arts, or radio literature, or as an executive of any radio enterprise of large scope, has attained a standing equivalent to that required for Member under paragraph "a" or "b." In case of such an executive the applicant must be qualified to take responsible charge of the broader features of radio engineering involved in the work under his direction.

d. A person at least twenty-eight years of age who is an engineer by profession in work closely allied to radio. As such, under general direction, he shall have taken responsibility in important engineering work in his field, or science, and shall have been in active practice of his profession for at least seven years.

SEC. 4—An Associate shall be not less than twenty-one years of age and shall be a person who is interested in or connected with the study or application of radio science or the radio arts.

SEC. 5—A Junior shall have attained the sixteenth anniversary of his day of birth but shall not have passed the twenty-first anniversary thereof, and shall be a person who is interested in the study or application of radio science or the radio arts.

SEC. 6—A student shall be a person registered as a full-time student in a university or technical school of recognized standing who is pursuing a regular course of study in the science of engineering. The designation of full-time student is intended to include those who devote either their entire time or the major part of their time to studies. The expression "school of recognized standing" is interpreted as applying to schools of college grade providing an engineering curriculum of not less than three years and granting degrees.

SEC. 7—In all cases, graduation from the radio course or electrical course of a school of science or of engineering of recognized standing shall be considered the equivalent of one year's radio experience.

SEC. 8—The provisions of this Constitution, unless so stated, shall not be retroactive.

SEC. 9—The terms "member" and "membership" when printed without an initial capital where used in the Constitution and By-Laws includes Fellows, Members, Associates, Juniors, and Students.

### ARTICLE III

#### ADMISSIONS AND EXPULSIONS

SEC. 1—Applications may be made for admission or transfer to any grade of membership as required by the By-Laws.

The Board of Directors may refuse to elect or transfer any applicant whose character, reputation, or professional conduct has been such as would make him, in the opinion of the Board of Directors, an undesirable member.

SEC. 2—An affirmative vote, oral or written, of at least two-thirds of the Board members voting at any regular meeting of the Board shall elect or transfer an applicant for any grade.

SEC. 3—A rejected applicant may renew his application for membership or transfer at any time after the expiration of one year from the date of the ballot rejecting his previous application.

SEC. 4—All elected candidates shall be duly notified. If acceptance of election by payment of admission fee and dues is not received within six months from the notification, such election shall be considered void, unless for special reasons the time shall be extended by the Board of Directors. Membership of any person shall date from the date of his election. If such date is subsequent to July 1st, only one-half of the annual dues are payable for that year. The applicant shall receive the publications of the Institute, if available, for the period for which dues are paid but if such publications are not available he shall receive a proportionate refund.

SEC. 5—Any member may be expelled from the Institute by a unanimous vote of the Board of Directors.

SEC. 6—A member may resign his membership by a written communication to the Secretary, who shall present the same to the Board of Directors; when, if all his dues have been paid, his resignation shall be accepted.

### ARTICLE IV

#### ENTRANCE FEES AND DUES

SEC. 1—The entrance fees, transfer fees, and annual dues shall be as follows:

*Entrance Fees*

Fellow.....	\$10.00
Member.....	5.00
Associate.....	3.00
Junior.....	1.00
Student.....	—

The transfer fee from one grade of membership to another shall be the difference between the corresponding entrance fees.

*Annual Dues*

Fellow.....	\$15.00
Member.....	10.00
Associate.....	6.00
Junior.....	4.00
Student.....	3.00

SEC. 2—The annual dues shall be payable in advance on the first day of January. It shall be the duty of the Secretary to notify each member of the amount due.

SEC. 3—The Board of Directors may temporarily excuse any member from payment of annual dues and may waive in whole or in part dues in arrears.

SEC. 4—Every person admitted to the Institute shall be considered as belonging thereto and liable for the payment of all membership dues until his connection therewith shall have terminated.

## ARTICLE V

## OFFICERS

SEC. 1—The governing body of the Institute shall be broadly representative of the membership. It shall be known as the Board of Directors and shall consist of the President, Vice President, Secretary, Treasury, nine elected Directors, five appointed Directors, and the past Presidents of the Institute for the preceding two years.

SEC. 2—The terms of all officers, except the nine elected Directors and the past Presidents, shall be one year each. The President and the Vice President shall not be eligible for immediate renomination to the same office.

SEC. 3—Three Directors shall be elected by the membership annually and shall serve for three years each. At the first election under this Constitution, additional Directors shall be elected, one for one year and one for two years.

SEC. 4—The five appointed Directors shall be chosen by the Board of Directors to serve for terms of one year each.

SEC. 5—The Board of Directors is authorized to appoint a successor to any officer to fill an unexpired term caused by death or resignation.

SEC. 6—No officer shall receive, directly or indirectly, any salary, compensation, or emolument from the Institute, either as such officer, or in any other capacity, unless authorized by a vote of a majority of the entire Board of Directors, except as authorized by the By-Laws.

## ARTICLE VI

## MANAGEMENT

SEC. 1—The President shall have general supervision of the affairs of the Institute. He shall preside at meetings of the Institute and of the Board of Directors at which he may be present and shall be an ex-officio member of all committees.

The Vice President shall assume the duties of the President in event of the absence or incapacity of the President.

In the event that the President or Vice President cannot personally act as Chairman of the Board of Directors, the Board shall elect a Chairman from the Board membership who is so situated relative to the executive office that he can perform any or all of the duties of the President and he is hereby authorized to perform such duties.

SEC. 2—The Board of Directors shall manage the affairs of the Institute in conformity to the laws under which the Institute is organized and the provisions of the Constitution and By-Laws. It shall direct the investment and care of the funds of the Institute, make appropriations for specific purposes, act upon applications for membership as herein provided, take measures to advance the interests of the Institute, appoint all its employees, and generally direct its business. The Board of Directors shall make an annual report to the membership of the Institute, transmitting digests of reports of the Treas-



urer and of the other officers and of committees. Six members of the Board of Directors shall constitute a quorum.

SEC. 3—The Board of Directors may make, amend, or revoke such By-Laws as are necessary from time to time. To make, amend, or revoke the By-Laws, the proposed changes and reasons therefor shall be prepared in written form and mailed to all members of the Board of Directors thirty days or more before the stipulated meeting at which the vote of the Directors on the proposed changes shall be counted. A two-thirds majority of all Directors' votes either in writing or in person, received at the stipulated meeting, shall be required to adopt any new By-Laws, amendments, or revocations.

SEC. 4—The Treasurer shall see that all monies are deposited in the name of the Institute. He shall invest all funds not needed for current disbursements, as shall be ordered by the Board of Directors. He shall see that all bills are paid when approved as provided by the Board of Directors. He shall make an annual report and such other reports as may be prescribed by the Board of Directors. A digest of the annual report shall be published for the information of the membership of the Institute.

The Board of Directors shall secure a surety bond on the Treasurer.

SEC. 5—The Secretary shall attend all meetings of the Board of Directors and principal meetings of the Institute, prepare the business thereof, and duly record the proceedings thereof. He shall see that all monies due to Institute are carefully collected, and without loss transferred to the custody of the Treasurer. He shall carefully scrutinize all expenditures and use his best endeavor to secure economy in the administration of the Institute. Subject to the instructions of the Board, he shall approve before payment all bills or vouchers on which money is to be paid, and shall countersign the checks drawn by the Treasurer, President, or Vice President, or Chairman of the Board, against the funds of the Institute when such drafts are known to him to be proper and duly authorized. He shall have charge of the books of account of the Institute, and shall furnish, when required by the Board of Directors, a statement of receipts and expenses under their several headings, and also a statement of monthly balances. He shall present annually, to the Board of Directors, a balance sheet of his books as of December 31st and shall furnish from time to time such other statements as may be required of him. He shall conduct the correspondence of the Institute and keep full records of the same. He shall perform all other duties which may from time to time be assigned to him by the Board of Directors.

The Board shall secure a surety bond on the Secretary. An annual audit of the affairs of the Institute shall be made by certified public accountants and submitted to the Board.

SEC. 6—All standing committees shall be chosen in accordance with the By-Laws by the incoming President before January 1st, the appointments to take effect at the annual meeting of the Institute. Additional standing committees and other committees may be appointed by the President with the consent of the Board of Directors at other times as may be required to carry out the objects of the Institute.

SEC. 7—The fiscal year of the Institute shall end with the 31st day of December.

## ARTICLE VII

### NOMINATION AND ELECTION OF PRESIDENT, VICE PRESIDENT, AND THREE DIRECTORS AND APPOINTMENT OF SECRETARY, TREASURER, AND FIVE DIRECTORS

SEC. 1—On or before July 1st of each year the Board of Directors shall call for nominations by petition and shall at the same time submit to qualified voters a list of the Board's nominations containing at least two names for each elective office, together with a copy of this article.

Nomination by petition shall be made by letter to the Board of Directors setting forth the name of the proposed candidate and the office for which it is desired he be nominated. For acceptance a letter of petition must reach the executive office before August 15th of any year, and shall be signed by at least thirty-five Fellows, Members, or Associates.

Each proposed nominee shall be consulted and if he so requests his name shall be withdrawn. The names of proposed nominees who are not eligible under the Constitution, as to grade of membership or otherwise, shall be withdrawn by the Board.

On or before September 15th, the Board of Directors shall submit to the Fellows, Members, and Associates in good standing as of September 1st, a list of nominees for the offices of President, Vice President, and three Directors. This list shall comprise at least two names for each office, the names being arranged in alphabetical order and shall be without indication as to whether the nominees were proposed by the Board or by petition. The ballot shall carry a statement to the effect that the order of the names is alphabetical for convenience only and indicates no preference.

Fellows, Members, and Associates shall vote for the officers whose names appear on the list of nominees, by written ballots in plain sealed envelopes, enclosed within mailing envelopes marked "Ballot" and bearing the member's written signature. No ballots within unsigned outer envelopes shall be counted. No votes by proxy shall be counted. Only ballots arriving at the executive office prior to October 25th shall be counted. Ballots shall be checked, opened, and counted under the supervision of a Committee of Tellers, between October 25th and the first Wednesday of November. The result of the count shall be reported to the Board of Directors at its first meeting in November and the nominees for



President and Vice President and the three nominees for Directors receiving the greatest number of votes shall be declared elected. In the event of a tie vote the Board shall choose by lot between the nominees involved.

SEC. 2—The Treasurer, Secretary, and five appointive Directors shall be appointed by the Board of Directors at its annual meeting for a term of one year or until their successors be appointed.

## ARTICLE VIII

### MEETINGS

SEC. 1—There shall be an annual meeting of the Board of Directors as soon as practicable after January 1st and before February 1st, at which newly elected officers shall begin their terms of service, and the Board shall make necessary appointments. There shall be a meeting of the Board of Directors in November on or after the first Wednesday to receive the report of the Tellers Committee.

SEC. 2—There shall be an annual meeting of the Institute as soon as practicable after the annual meeting of the Board of Directors at which newly appointed directors, officers, and committees shall begin their terms of service and at which general reports of the Secretary and Treasurer shall be made, and at which the retiring and incoming Presidents shall be requested to present addresses in person or by proxy.

SEC. 3—Additional business meetings and meetings for the reading and discussions of papers shall be held as prescribed in the By-Laws.

SEC. 4—The Institute may adopt, from time to time, rules for the order of business at its meetings.

SEC. 5—In addition to the annual and November meetings of the Board of Directors, meetings of the Board shall be held at such times as are necessary to carry out the provision of this Constitution and may be held at such other times as any three members of the Board may determine, but only on notice to all members of the Board.

## ARTICLE IX

### INSTITUTE SECTIONS

SEC. 1—Whenever, in the judgment of the Board of Directors, a sufficient number of Fellows, Members, and Associates shall petition, in writing, these members may form, subject to the Constitution and all By-Laws and regulations which may be hereafter prescribed by the Board of Directors, a Section of the Institute of Radio Engineers for the purpose of more effectually carrying out the aims of the Institute.

SEC. 2—Any member may become a member of such section, but no such member shall be entitled to vote, or hold office, in more than one section at a given time.

SEC. 3—The Board of Directors may at any time terminate the existence of any section when in its judgment the interests of the Institute make such action desirable.

## ARTICLE X

### AMENDMENTS

SEC. 1—Amendments to this Constitution may be proposed by means of a petition signed by not less than thirty-five (35) Fellows, Members, or Associates, or by means of a resolution adopted by the Board of Directors. Such proposed amendment or amendments shall be submitted to legal counsel by the Board of Directors, and if, in the opinion of such counsel, they are in accordance with the laws under which the Institute is organized, a copy shall be mailed, with a letter ballot, to each member.

SEC. 2—Constitutional amendment ballots shall be mailed to the membership sixty days before the date set for counting the ballots, and the ballots shall carry a statement of the time limit for delivery to the executive office. The Secretary shall hand these ballots to a Committee of Tellers, which shall count such votes and make a sealed report in duplicate to the Board of Directors at the next meeting of the Board, one copy of which shall forthwith be filed with the Secretary, while the other copy shall remain in possession of the chairman of the committee, who shall hand this report to the presiding officer. In the absence of this report by the chairman of the committee the Secretary shall produce the duplicate copy and hand the same to the presiding officer of the meeting. The presiding officer shall then cause the report to be read. If the total vote be not less than twenty per cent (20%) of the total membership of the Institute, and if seventy-five per cent (75%) or more of all the Fellows, Members, and Associates voting shall declare themselves in favor of the proposed amendment or amendments, the same shall become a part of the Constitution.

SEC. 3—Amendments shall take effect thirty (30) days after their adoption, but officers and officers-elect of the Institute at the time any amendment becomes effective shall continue in office until the end of the terms for which they were elected.

SEC. 4—The Secretary shall print copies of the amendments as soon as practicable after adoption, and distribute the same to the membership.

SEC. 5—A complete history of amendments shall be kept in the files of the Institute.

## BY-LAWS OF THE INSTITUTE OF RADIO ENGINEERS

Article VI, Sec. 3, of the Constitution provides for By-Laws as follows:

"The Board of Directors may make, amend, or revoke such By-Laws as are necessary from time to time. To make, amend, or revoke the By-Laws, the proposed changes and reasons therefore shall be prepared in written form and mailed to all members of the Board of Directors thirty days or more before the stipulated meeting at which the vote of the Directors on the proposed changes shall be counted. A two-thirds majority of all Directors' votes either in writing or in person, received at the stipulated meeting shall be required to adopt any new By-Laws, amendments, or revocations."

### BY-LAWS

#### MEMBERSHIP

SEC. 1—Institute members are authorized to use the following abbreviations or symbols indicating their grade of membership:

Fellow—Fel. I.R.E.  
Member—Mem. I.R.E.  
Associate—Assoc. I.R.E.  
Junior—Jr. I.R.E.  
Student—Std. I.R.E.

SEC. 2—The term member (when printed without a capital), where used herein, includes Fellows, Members, Associates, Juniors, and Students.

SEC. 3—It shall be the duty of all members to call the attention of the Secretary to any improper use of Institute badges or symbols, or to claims made by nonmembers that they belong to the Institute. The Secretary shall thereupon investigate the facts and lay the matter before the Board of Directors.

SEC. 4—All applications for admission to the Institute in the Fellow or Member grades or for transfer to these grades shall be made in a form approved by the Board of Directors, and shall embody a full record of the general technical education of the applicant and of his professional career. Applicants for various grades of membership shall refer to the following number and grade of sponsors:

For the grade of Fellow, to five Fellows.  
For the grade of Member, to five Fellows or Members.  
For the grade of Associate, to three Fellows, Members, or Associates.  
For the grade of Junior, to three Fellows, Members, or Associates.  
For the grade of student, to a member of the faculty of the school which he attends.

Each application for admission or for transfer from one grade to another shall embody a concise statement, with dates, of the candidate's training and experience, and shall be in such form and such detail as may be prescribed by the By-Laws. It shall be signed by the applicant, and shall contain a promise to conform to the requirements of that grade of membership to which he may be elected.

Each of the members referred to by the applicant shall be requested by the Secretary to address a confidential letter of prescribed form to the Board of Directors stating the extent of the writer's personal knowledge of the training and experience of the applicant and the writer's opinion of the character of the applicant. If at least a majority of the members named as reference do not furnish the requisite endorsement, the Secretary shall call upon the applicant for additional names, and not until written communications have been received from at least three members, in the case of Fellow and Member grades, shall the application be considered by the Board of Directors.

The requirements of the foregoing paragraphs may be waived in whole or in part where the applicant is well known, either personally or by reputation, to the Board of Directors, or where the application is for Junior, Student, or Associate grade.

An applicant for the Member or Fellow grade who is so situated as not to be known personally to more than three of the required number of members of suitable grade may give the names, occupations, and addresses of responsible nonmembers to complete the required number of references.

SEC. 5—No application for admission or transfer shall be acted upon by the Admissions Committee until the number of replies prescribed above is received, except where requirements have been waived as provided in the foregoing Section.

SEC. 6—An applicant for admission to the Institute, who, in the judgment of the Admissions Committee, is not eligible for the grade applied for, but is eligible for admission to a lower grade, may be so notified, and be given the opportunity of changing his application accordingly.

SEC. 7—The names of applicants for admission to, or transfer in, the Institute after approval by

the Admissions Committee or other authority shall be posted in the PROCEEDINGS with a request that any member objecting to the election or transfer of any candidate shall make written communications to the Secretary, who shall refer such communication to the Board of Directors at the time of submission of the name of such candidate.

SEC. 8—Transfer of an Associate or Member to a higher grade may be proposed by any member acting as sponsor, in which case the sponsor shall fill out the application blank and provide letters of reference for submission to the Admissions Committee. If the application is favorably acted upon, the sponsor shall secure the candidate's signature to a duplicate application blank after which the application shall be posted and submitted to the Board of Directors with other applications as specified in Section 7.

SEC. 9—The Membership Committee shall, each year, select from the membership list the names of all members whom they think are entitled to a higher rank in membership, and shall act as sponsors as prescribed in Section 8 of these By-Laws.

SEC. 10—Objection to the admission or transfer of any candidate to any grade must be accompanied by reasons for such objection. All such statements shall be treated as confidential.

SEC. 11—The privileges attaching to membership in the Institute, shall not be accorded to applicants for admission until they have been duly elected, and have paid their entrance fees and current dues.

SEC. 12—A prompt notification of his election, accompanied by a statement of his initiation fee (if unpaid) and dues, shall be mailed to each candidate by the Secretary. A second notice of his indebtedness shall be sent by mail one month later to every candidate remaining in arrears in the continental United States and Canada and two months later to all other candidates. The Secretary may, at his discretion, cancel the election of any applicant who has not paid his initiation fee and remains in arrears three months after the mailing of the second notice.

SEC. 13—Any member who has resigned in good standing may be reelected without payment of entrance fee.

If such applicant so desires he may be reinstated, retaining his original date of membership or transfer, by payment of all dues which have accrued during the interim, and he will then be entitled to such Institute publications issued during this period as may be available and a rebate for such publications as are not available.

SEC. 14—Any member who has been dropped as delinquent may upon payment of the dues for which he was in arrears be reinstated or he may at his option be reelected to that grade of membership previously held upon payment of the entrance fee and current dues for that grade.

SEC. 15—The Institute rights and privileges of each member shall be personal to himself, and shall not be transferable or transmissible by his own act or by operation of law.

SEC. 16—A member whose membership shall terminate for any cause shall have no right or interest in any property of the Institute or any claim or privilege in or against the Institute or pertaining thereto.

SEC. 17—Any member whose dues are more than two months in arrears shall be notified by the Secretary. Should his dues not be paid when they become three months in arrears, he shall lose the right to vote or to receive the publications of the Institute. Should his dues become six months in arrears, he shall be again notified in form prescribed by the Board of Directors, and if such dues become ten months in arrears, he shall forfeit his connection with the Institute. The Board of Directors may, however, for cause deemed by it sufficient, extend the time for payment and for the application of these penalties.

SEC. 18—The mailing of bills or statements to the most recent address received from a member shall be considered a valid notice of indebtedness.

SEC. 19—Allied vocation, work, art, and science shall be construed largely upon the interest in the PROCEEDINGS of this Institute and upon the present and future applications of radio developments. Any work, art, or science which in its present state is obviously dependent on past, present, or probable future radio developments, any work, art, or science from which there is an obvious demand for the PROCEEDINGS of the Institute, and any work, art, or science that obviously contributes to the development of radio engineering shall be considered as an allied branch of engineering or of the related arts or sciences.

In each individual case the decision as to whether or not a candidate's occupation is sufficiently closely related to the purposes of the Institute shall be made by the Board of Directors in cooperation with the Admissions Committee.

#### ELECTION OF OFFICERS

SEC. 20—In January the Board of Directors shall select three of its members to serve as a Nominations Committee who shall select a chairman from their number and two or more additional committee members, if they deem it desirable.



As soon as practicable the Nominations Committee shall meet to select nominees and shall present its selections to the Board of Directors before April 15th. They shall suggest three or more names for each office and shall avoid naming persons who would presumably not accept the nominations, in so far as may be practicable.

SEC. 21—The Secretary, appointed as prescribed in Article VII, Sec. 2 of the Constitution, shall be paid a salary, the amount of which shall be determined by the Board of Directors.

#### BOARD OF DIRECTORS

SEC. 22—Unless otherwise ordered by the Board of Directors, meetings of the Board of Directors shall be held the first Wednesday of each month in the office of the Institute in New York City, except that in July and August meetings may be omitted.

Minutes of all meetings of the Board of Directors shall be sent to each member of the Board of Directors.

#### INSTITUTE MEETINGS

SEC. 23—Unless otherwise ordered by the Board of Directors, meetings shall be held by the Institute on the first Wednesday of each month except July and August and at such other times and places as the Board of Directors may elect.

SEC. 24—There shall be one or more general conventions of the Institute each year. Regional conventions may also be held. The location and dates of all conventions shall be determined by the Board of Directors.

SEC. 25—The President shall appoint a Convention Committee for each convention. The duties of this committee shall consist in making all necessary local arrangements for the convention, in coöperations with the Secretary and the Papers Committee. The chairman of the Convention Committee shall appoint such subcommittees as he deems necessary, as, for example, Committees on Publicity, Finance, Technical Sessions, Inspection Trips, Entertainment Features, Hotel Arrangements, etc.

#### SECTIONS

SEC. 26—A petition for the formation of a Section shall be signed by not less than twenty-five (25) Fellows, Members, and Associates residing within the territorial limits hereinafter prescribed. The Board of Directors may decline to authorize the formation of a Section when in its judgment such an organization would not be compatible with the interests of the Institute.

SEC. 27—All Sections will conform to a Constitution for Sections provided by the Institute. The Constitution for Sections will be found following these By-Laws.

SEC. 28—In the initial Section organization only petitioners shall have the right to vote.

SEC. 29—A Section of the Institute may coöperate with other local organizations in the holding of joint meetings, and may invite members of such organizations and the public to its meetings.

SEC. 30—The territory of a Section shall include the locality naturally tributary thereto, but shall not include territory so remote or inaccessible that members cannot readily attend meetings. For the purpose of determining the maximum amount to which the Section is entitled under these By-Laws, points more than sixty miles from the regular meeting place of the Section shall not be considered a part of that Section, except that, when special conditions warrant such action, additional territory within a reasonable distance may be authorized by the Board of Directors, upon approval of the Sections Committee. If adjacent Sections are so situated that the sixty-mile limit embraces common territory, the question as to which Section may claim such members as reside within this common territory shall, if possible, be decided by agreement between the Sections concerned, otherwise by the Sections Committee.

SEC. 31—The Board of Directors may at any time terminate the existence of any Section when in its judgment the interests of the Institute make such action desirable.

SEC. 32—Papers and discussions presented before a Section shall be the property of the Institute, and may be published only on authorization by the Board of Editors.

SEC. 33—Each Section shall conduct its affairs in such a manner as to demand for its maintenance a minimum of financial support by the Institute consistent with the activities carried on by that Section.

The appropriation of Institute funds during any fiscal year for aid in Section maintenance shall be the sum determined as follows: Fifty cents for each Fellow, Member, and Associate residing within the territory of the Section at the beginning of the fiscal year, namely, January 1st, plus ten (\$10.00) dollars for each meeting up to and including the tenth meeting held during the year.

Sections shall have no authority to contract debts, pledge the credit, or in any way bind the Institute.

SEC. 34—Section Secretaries shall forward to the Secretary of the Institute a report of each meeting held by the Section for the presentation or discussion of papers, and on January 1st of each year a statement of the past year's accounts.



## SECTION DELEGATES

SEC. 35—The Section delegates attending a convention shall be members of the Institute. The duties of these delegates shall be as follows:

- a. To attend such meetings of the Sections Committee as may be held during the convention.
- b. To exchange views and experiences in connection with Section activities and management and to make recommendations of an advisory nature upon such matters to the Board of Directors.
- c. To exchange and discuss ideas regarding subjects for inclusion in technical programs of future Section meetings.
- d. To advise the chairman of the Sections Committee at least sixty days in advance of the convention of questions of interest to the Institute Sections which, in their opinion, should be discussed by the delegates at the meetings of the Sections Committee during the convention. The chairman of the Sections Committee shall appoint a subcommittee of three, who with the chairman, ex-officio, shall prepare in advance of the convention a program of such questions for discussion.
- e. Past chairmen or chairmen-elect of Sections, if in attendance at the convention, shall have the privilege of attending all meetings of the Sections Committee but each Section shall be entitled to one vote only, which shall be cast by the chairman of the Section or other official delegate of the Section.

## STUDENTS

SEC. 36—Each application for enrollment as a Student shall be endorsed by a member of the faculty of the school which he attends.

SEC. 37—The period of Student enrollment shall not extend more than one and one-half years beyond the date of award of the baccalaureate or leaving the university or technical school except that the period of Student enrollment may continue as long as at least half of the student's time is devoted to a regular course of study in science or engineering in a school of recognized standing. The period of enrollment shall date from the first of January nearest the date of filing the application. (Amended February 5, 1936.)

SEC. 38—The annual fee paid by each Student shall be applied as a subscription to the PROCEEDINGS for the year covered by such payment.

SEC. 39—A Student changing his mailing address without notifying the Secretary shall be entitled to duplicate copies of the Proceedings when available upon payment of fifty cents each.

## COMMITTEES AND THEIR DUTIES

SEC. 40—The standing committees to be appointed by the President shall include the following:

Admissions Committee  
Awards Committee  
Board of Editors  
Constitution and Laws Committee  
Membership Committee  
New York Program Committee  
Nominations Committee  
Papers Committee  
Publicity Committee  
Sections Committee  
Standards Committee  
Tellers Committee

The President with the advice and consent of the Board of Directors, shall appoint the members and designate the chairman of each committee, who shall select a Vice Chairman and a Secretary. Copies of minutes of all meetings and actions of committees shall be forwarded promptly by the committee secretary to the Secretary of the Institute for his file.

Standing committees shall serve from annual meeting to annual meeting.

The President or the Board of Directors may appoint additional members to any committee at any time.

SEC. 41—The Admissions Committee shall consist of five or more Fellows and Members of the Institute. The duties of this Committee are indicated in Article III of the Constitution and under "Membership" in the foregoing By-Laws.

SEC. 42—The Awards Committee shall consist of at least three but not more than five Members and/or Fellows. This Committee shall recommend recipients for the awards established by the Institute. (Amended January 31, 1934.)

SEC. 43—The Board of Editors shall consist of four or more appointed members and the Secretary ex-officio. The Chairman shall be selected from the Board of Directors.

This Committee shall have supervision of the PROCEEDINGS, and other publications of the Institute, including matters pertaining to the format of these publications, decisions regarding the publication of papers, discussions, and all other matter available for publication, and the formulation and carrying out of plans for bringing into practice the policies regarding Institute publications that may be determined from time to time by the Board of Directors.

SEC. 44—The Constitution and Laws Committee shall consist of five or more members of the Institute, one of whom is a lawyer. It shall consider and investigate all matters relating to the Constitution and By-Laws of the Institute, the duties and jurisdiction of its officers and committees, its legal status and responsibilities, and like legal and cognate questions referred to it by the Board of Directors for action thereon. The committee may consult legal and technical counsel with reference to any question before it.

SEC. 45—The Membership Committee shall consist of five or more members, and the chairmen of the Membership Committees of the Sections of the Institute, *ex-officio*.

This Committee shall bring the advantages of membership to the attention of desirable candidates for admission to the Institute. The Committee may enlist the coöperation of the Sections in its work or take such other measures as it may consider advisable to interest prospective members of the standing and qualifications specified for the various grades of membership.

SEC. 46—The New York Meetings Program Committee shall consist of five or more members and shall prepare the programs for New York meetings of the Institute.

SEC. 47—The Nominations Committee shall consist of five or more members who shall recommend to the Board of Directors on or before the May meeting of the Board of Directors, a list of nominees for the offices of President, Vice President, and three Directors.

SEC. 48—The Papers Committee of five or more members shall be appointed for their ability to obtain, examine, and select papers.

This Committee shall coöperate with the Convention Committees. The Committee shall receive and consider all papers and in addition shall arrange directly for papers relating to subjects within the scope of Institute activity.

SEC. 49—The Publicity Committee shall consist of five or more members and shall give such publicity through the public press of Institute activities as will contribute to the growth and usefulness of the Institute.

SEC. 50—The Sections Committee shall consist of five or more appointed members and the chairman of each Section, *ex-officio*, or his representative.

This Committee shall have the general supervision and management of the Sections of the Institute. The Committee shall confer with the Section officers and it shall consider, investigate, and make reports and recommendations to the Board of Directors for action upon all matters regarding or involving the interests and welfare of Sections.

SEC. 51—The Standards Committee shall consist of ten or more members with such additional members as may be necessitated by the plan of organization adopted by the Standards Committee.

This Committee shall consider and investigate all matters relating to units and standards appertaining to or applicable in radio engineering and in the allied engineering arts and sciences. The committee shall make reports and recommendations to the Board of Directors for action thereon.

SEC. 52—The Tellers Committee shall consist of the Secretary and at least one Associate, one Member, and one Fellow.

SEC. 53—The functions of temporary committees shall be defined by the Board of Directors. At the beginning of each administrative year the Secretary shall transmit to all the members of each temporary committee whose duties may be continued, copies of the original resolutions constituting such temporary committee.

SEC. 54—Committees shall be listed in alphabetical order in Institute publications.

#### REPRESENTATIVES UPON JOINT COMMITTEES AND OTHER BODIES

SEC. 55—The Board of Directors may appoint representatives of the Institute upon joint committees, boards, and other local, national, and international bodies, for the purpose of bringing about closer coöperation between the Institute and other organizations. The terms of these representatives shall terminate on December 31st except where the terms are otherwise specified in the regulations of the body to which they are appointed.

SEC. 56—The Board of Directors may authorize payment of the expenses of any officer or member when that member is sent by the Board of Directors to represent the Institute. The Board of Directors, in carrying out the objects of the Institute, may authorize any officer(s) or member(s) to represent the Institute on any subject when the degree and time of representation is specified.

## PAPERS AND DISCUSSIONS

SEC. 57—Preprints or reprints of any paper published by the Institute not exceeding 50 copies will be furnished, without covers, free of charge for the personal use of the author if requested within 30 days before the month of publication. Special covers will be charged for.

For reprints or preprints in excess of 50 copies, or when ordered later than specified above, a charge will be made.

SEC. 58—The President may invite any nonmember to discuss any paper presented at a meeting of the Institute, and the chairman of any Section may invite any nonmember to discuss any paper presented at the Section of which he is chairman.

SEC. 59—No paper or written contribution to a discussion shall be given to the press for publication in advance of its presentation except by authority of the Board of Directors. Abstracts may be given to the press by the Publicity Committee.

SEC. 60—No person shall receive monetary compensation from the reprinting of any paper or discussion presented before the Institute or before any Section without previous authorization from the Secretary, excepting such reprints as are supplied by the Institute. All copyrights belong to the Institute.

## PUBLICATIONS

SEC. 61—The regular publications of the Institute shall include the PROCEEDINGS, to be published monthly.

SEC. 62—The PROCEEDINGS may have two principal divisions:

- a. For current matter and Institute news.
- b. For technical papers, discussions, and other matter of engineering character.

SEC. 63—The Secretary is authorized to receive annual subscriptions to the monthly Proceedings at the rate of \$10.00 per annum with an extra postage charge sufficient to cover the mailing cost to all countries to which the bulk rate of postage does not apply. A discount of fifty per cent from the subscription price of \$10.00 will be allowed to colleges, public libraries, and libraries of learned organizations or institutions of standing, upon direct subscription to Institute headquarters. Members, publishers, and subscription agencies may be allowed a discount of twenty-five per cent.

SEC. 64—A reinstated or new member shall be entitled to receive single copies of the PROCEEDINGS issued during the period covered by his payment of dues when copies are available, and shall be entitled to a rebate of twenty-five cents per copy when such PROCEEDINGS are not available.

SEC. 65—Unless otherwise ordered by the Board of Directors, an alphabetical and geographical list of members shall be published annually. The grade of each member shall be indicated in either list, or both, by a difference in type or otherwise, at the Secretary's discretion. This list, usually in the form of a YEAR BOOK, shall be sent to all members without charge. The list of members shall be corrected to January 1st and mailed as soon thereafter as possible.

## PUBLICITY

SEC. 66—Officers and committees, who consider that publicity regarding any Institute activities under their jurisdiction should be given in the daily or technical press, are urged to prepare such announcements as they may deem desirable, which should then be forwarded, with recommendations, to the Secretary. The Secretary will promptly refer them to the Publicity Committee. If the Secretary or the Publicity Committee is in doubt as to the propriety of publication the question may be referred to the Board of Directors. If the subject is a matter of news, the news value may be retained by discussing the matter over the telephone with as many committee members as are available.

# CONSTITUTION FOR SECTIONS

(NAME OF PLACE OR GEOGRAPHICAL DISTRICT SECTION OF)

## THE INSTITUTE OF RADIO ENGINEERS

### CONSTITUTION

#### ARTICLE I

##### NAME AND OBJECT

SEC. 1—This organization shall be known as the.....Section of the Institute of Radio Engineers.

SEC. 2—The Section shall strive for the advancement of the theory and practice of radio engineering and of the allied arts and sciences, and the maintenance of a high professional standing among its members, all in consonance with the Constitution and By-Laws of the Institute and with special attention to such aims within the territory of the Section as are hereinafter defined.

SEC. 3—The Section shall aid in promoting close coöperation and good fellowship among its members and to this end shall hold meetings for the transaction of the regular business of the Section and for the presentation of papers and their discussion.

#### ARTICLE II

##### MEMBERSHIP

SEC. 1—All members of the Institute residing within the territory of the Section are automatically members of this Section. There shall be no other grades of membership.

SEC. 2—All Fellows, Members, and Associates of the Institute residing within the territory of the Section shall be entitled to attend meetings, vote, and hold office.

SEC. 3—Junior and Student members of the Institute shall be entitled to attend meetings but shall not have the right to vote or hold office.

#### ARTICLE III

##### TERRITORY

SEC. 1—The territory of the Section shall comprise (counties and State or States).

#### ARTICLE IV

##### DUES

SEC. 1—There shall be no Section dues.

SEC. 2—The ordinary expenses of the Section shall be defrayed by the funds supplied by the Institute.

SEC. 3—Emergency or extraordinary expenses may be provided for by voluntary contribution from the membership of the Section. A unanimous vote of the Executive Committee is required before such a request may be made.

#### ARTICLE V

##### OFFICERS

SEC. 1—The officers of the Section shall be a Chairman, a Vice Chairman and a Secretary-Treasurer.

SEC. 2—Terms of all officers shall be for one year beginning at the close of the annual meeting at which election is held and continuing until their successors are duly elected and take office.

#### ARTICLE VI

##### MANAGEMENT

SEC. 1—There shall be an Executive Committee consisting of the officers, the Junior Past Chairman, the Chairman of the Meetings and Papers Committee, the Chairman of the Membership Committee, the Chairman of the Publicity Committee, and, if desired by the Executive Committee, one additional member to be appointed by the Chairman.



SEC. 2—The Chairman, responsible to the Executive Committee, shall have general supervision of the affairs of the Section. He shall preside at meetings of the Section and the Executive Committee and have such other powers and perform such other duties as may be provided for in the By-Laws, or as may be delegated to him by vote of the Section. In his absence his duties shall be performed by the Vice Chairman.

SEC. 3—The Secretary-Treasurer shall receive and deposit all monies in the name of the Section in such depository as shall be determined by the Executive Committee. He shall make only such disbursements as shall be ordered by the Executive Committee.

SEC. 4—The Secretary-Treasurer shall send out notices, prepare the agenda for, and record the minutes of all meetings of the Section and of the Executive Committee. He shall make such reports of his activities as may be required by the Executive Committee of the Institute.

SEC. 5—The Chairman, as soon as expedient after the annual meeting, shall appoint the following standing committees:

Meetings and Papers Committee  
Membership Committee  
Publicity Committee

Members appointed shall serve until their successors are appointed or the committee dissolved.

Other Committees may be authorized by vote of the Section at any regular meeting, and shall be appointed by the Chairman of the Section.

## ARTICLE VII

### NOMINATION AND ELECTION OF OFFICERS

SEC. 1—All officers shall be elected at the annual meeting of the Section upon nomination by a nominating committee of three members not then officers of the Section, duly appointed by the Chairman of the Section two months before the annual meeting. These nominations shall be announced in the notice of the annual meeting. Nominations may also be made from the floor.

SEC. 2—Vacancies in office occurring during the year shall be filled by the Executive Committee for the remainder of the unexpired term unless otherwise provided for.

SEC. 3—If for any reason the best interests of the Section seem to require a change in the governing body during the year, the matter shall be duly and carefully considered by the Executive Committee. Upon not less than two-thirds vote of the Executive Committee, or upon receipt by the Executive Committee of a petition signed by fifteen (15) members of the Section, recommendation shall be made to the Section for action at a special meeting to be duly called by the Executive Committee for the sole purpose of considering and voting upon such a change.

A two-thirds vote of the members present shall be necessary to declare an office vacant. Upon a two-thirds vote of the members present the vacant office may be filled for the unexpired term upon nominations from the floor.

## ARTICLE VIII

### MEETINGS

SEC. 1—The Section shall not hold less than five regular meetings during the year, one of which shall be an annual meeting.

SEC. 2—These meetings shall be held at some specific time in the year as prescribed in the Section By-Laws.

SEC. 3—The fiscal year of the Section shall correspond with the fiscal year of the Institute. (Calendar year.)

SEC. 4—Fifteen members shall constitute a quorum at all meetings of the Section called for the transaction of regular business and requiring a vote to be taken.

SEC. 5—A plurality vote of the members present is necessary for the election of officers.

SEC. 6—Meetings of the Executive Committee shall be held at such times as shall be found necessary. Executive Committee meetings may be called by the Chairman of the Section at his own discretion or shall be at the request of three members of the committee.

SEC. 7—Four members shall constitute a quorum at all meetings of the Executive Committee except as otherwise provided herein.

SEC. 8—A majority vote of the Executive Committee shall be necessary, in the conduct of its business except as otherwise provided in this Constitution or in the Section By-Laws.

SEC. 9—The Secretary-Treasurer shall send out notices of all regular Section meetings to all Institute members in the territory of the Section at least one week prior to the date of meeting. These notices shall contain a full statement of the time, place, and business of the meeting.

## ARTICLE IX

## AMENDMENTS

SEC. 1—This Constitution may be amended by a two-thirds vote of all members present at any annual meeting of the Committee on Sections provided that notices of the proposed meeting and the proposed change has been sent to all members of the Committee on Sections at least one month in advance of the meeting. Such action shall be subject to the approval of the Board of Directors of the Institute.

SEC. 2—In the event of absence of any member of the Committee on Sections, he may vote by proxy on amendments to this Constitution.

SEC. 3—Suitable By-Laws to this Constitution may be adopted by a two-thirds vote of the Section provided they are consonant with the Constitution and By-Laws of the Institute and this Constitution. A copy of these By-Laws shall be filed in the Institute office.

## ANNUAL MEETINGS

The annual meeting at which officers for the succeeding year are elected is usually a regular monthly meeting. The particular month chosen by each of the Sections is tabulated below.

Sections	Month
Atlanta	January
Boston	December
Buffalo-Niagara	June
Chicago	December
Cincinnati	December
Cleveland	December
Connecticut Valley	Last regular meeting of calendar year
Detroit	December
Los Angeles	December
New Orleans	June
Philadelphia	June
Pittsburgh	May
Rochester	Last spring meeting
San Francisco	June
Seattle	December
Toronto	May
Washington	December

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Roman numerals refer to Articles; arabic numerals, to Sections; and numbers in parentheses, to By-Laws.

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# CATALOG *of* MEMBERSHIP

ARRANGED ALPHABETICALLY

*and*

GEOGRAPHICALLY

## NOTE

The following list of membership is divided into four sections; the first contains an alphabetical list of all Fellows and the second gives a similar list of all Members. The third section contains an alphabetical list of members of the Institute of all grades and the last comprises a geographical list of members. In the general alphabetical portion, the letter and date immediately following the member's name indicate the grade of membership and date of election. Where more than one letter and date group follow the member's name, the subsequent notations refer to the grade and date of transfer to a higher grade. (F) denotes the grade of Fellow; (M) Member; (A) Associate; (J) Junior; (S) Student.

Where only one address is shown in the alphabetical list it is the mailing address.

The geographical list contains the state and town in which the member is located and his present grade of membership in the Institute.

These lists contain the names of all members on record as of December 31, 1936. The data listed for each member have been corrected to February 27, 1937.

# FELLOWS

## A

Alexanderson, E. F. W.  
Anderson, C. N.  
Appleton, E. V.  
Armstrong, E. H.  
Austin, A. O.

## B

Bailey, A.  
Baker, W. R. G.  
Ballantine, S.  
Barkhausen, H.  
Barton, F. S.  
Batsel, M. C.  
Behr, F. J.  
Bennett, E.  
Beverage, H. H.  
Blackwell, O. B.  
Bown, R.  
Brailard, R.

## C

Cady, W. G.  
Carter, E. F.  
Chaffee, E. L.  
Clapp, J. K.  
Clement, L. M.  
Colpitts, E. H.  
Craven, T. A. M.  
Cutting, R. F.

## D

de Forest, L.  
Dellinger, J. H.  
Diehl, W. F.  
Dorsey, H. G.  
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DuMont, A. B.  
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Englund, C. R.  
Espenschied, L.  
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## F

Farrand, C. L.  
Farrington, J. F.  
Fisk, E. T.  
Freed, J. D. R.  
Friis, H. T.  
Fuller, L. F.

## G

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Goldsmith, A. N.  
Graham, V. M.  
Greaves, V. F.

## H

Hartley, R. V. L.  
Hazeltine, A.  
Heintz, R. M.  
Heising, R. A.  
Hinnners, F. A.  
Hogan, J. V. L.  
Holland, W. E.  
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Horn, C. W.  
Horton, J. W.  
Hull, L. M.  
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Jarvis, K. W.  
Jewett, F. B.  
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## K

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Kolster, F. A.  
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Loughlin, W. D.

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McCutchen, B. S.  
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## R

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Terman, F. E.  
Terrell, W. D.

## V

van der Biil, H. J.  
van der Pol, B.  
Van Dyck, A. F.

## W

Wagner, K. W.  
Warner, J. C.  
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Whittemore, L. E.  
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## Z

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Aiken, C. B.  
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Alker, T. F.  
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Andres, L. J.  
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Andrews, P. D.  
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Asserson, R.  
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Backus, C. D.  
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Brolly, A. H.  
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**C**

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Callahan, J. L.  
Calver, F. M.  
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Cobb, F. A.  
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Dallin, E. B.  
Dane, F. W.  
Dart, H. F.  
David, B. W.  
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Davis, C. L.  
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Dawes, R. M.  
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**E**

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**F**

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## H

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Poole, R. E.  
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## R

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Senauke, A.  
Seyfert, S. S.  
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Shalkhauser, E. G.  
Shangraw, C. C.  
Shannon, J. H.  
Shea, P. F.  
Shelby, R. E.  
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Stoeckle, E. R.  
Stone, C. H.  
Strieby, M. E.  
Stroebe, J. C., Jr.  
Strong, C. E.  
Struthers, G. A.  
Sutherland, J. G. A.  
Sutherland, L.  
Svoboda, J.  
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## T

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Thiessen, A. E.  
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Thomas, W. A., 3rd  
Thompson, A. E.  
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Tierney, W. L.  
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Tinus, W. C.  
Tisshaw, H. S.  
Tolmie, J. R.  
Tolson, W. A.  
Towner, O. W.  
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Tucker, C. E.  
Tuckerman, L. P.  
Turtle, E. H.  
Turner, G. S.  
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Twiss, A. R.  
Tykociner, J. T.

## U

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Uzmann, J. G.

## V

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## W

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Wyles, D. G.

## Y

Yokoyama, E.  
Young, L. C.

## Z

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Zworykin, V. K.

# CATALOG OF MEMBERSHIP, 1936

(This list is corrected to February 27, 1937)

## Arranged Alphabetically

(See note on page 60)

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# CATALOG OF MEMBERSHIP, 1936

(Corrected to February 27, 1937)

Arranged Geographically

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Waldo, G. V. (A)  
Dothan  
Spencer, S. W. (A)  
Escatawpa  
Sporna, J. (A)  
Fairhope  
Ness, D. N. (A)  
Maxwell Field  
Finter, C. V. (A)  
Mobile  
Kelly, R. P. (A)  
Montgomery  
Rives, T. C. (M)  
Sparhawk, G. H. (A)  
Trum, A. D. ((A))  
Selma  
Roberson, A. M. (A)

### ARIZONA

Holbrook  
Dargie, D. A. (A)  
Kingman  
Wallace, P. H. (A)  
Phoenix  
Grigg, J. W. (A)  
Paul Spur  
Holland, W. E. (F)  
Winslow  
Shaw, C. E. (A)

### ARKANSAS

Batesville  
Griffin, F. T. (S)  
Fayetteville  
Davis, J. W. (S)  
Little Rock  
Beem, R. M. (A)  
Texarkana  
Mims, M. P. (A)

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Alameda  
Angus, G. W. (A)  
Daniels, H. H. (A)  
Larime, L. H. (A)  
White, R. H. (A)  
Alhambra  
Gould, L. K. (A)  
Jeffords, R. D. (A)  
Swift, F. T. (A)  
Altadena  
Axtell, H. B. (A)  
Bradshaw, R. C. (A)  
Hull, R. W. (A)  
Johnson, P. F. (M)  
Stuedle, E. C. (A)  
Anaheim  
Howard, L. W. (A)

Bakersfield  
Jarvis, L. P. (A)  
Baldwin Park  
Martin, O. F. (A)  
Baxter  
Lindsey, W. F. (A)  
Belmont  
Clark, R. W. (A)  
Berkeley  
Bartholomew, L. (A)  
Bennett, R. (A)  
Cornes, R. W. (S)  
Daspit, L. R. (A)  
Davis, D. D. (A)  
Glessner, J. M. (A)  
Greves, G. L. (A)  
Halloran, A. H. (M)  
Heinrich, M. A. (A)  
Henning, C. I. B. (A)  
Henry, F. M. (A)  
Jones, F. C. (A)  
Lambert, E. G. (S)  
Mather, N. W. (S)  
Peterson, N. J. (S)  
Randall, R. D. (A)  
Reukema, L. E. (A)  
Rice, A. R. (A)  
Scott, H. J. (A)  
Shima, R. (S)  
Tibbets, D. R. (A)  
Wainola, A. J. (S)  
Beverly Hills  
Gioga, P. (A)  
Stanton, R. S. (A)  
Waite, S. A. (A)

Bishop  
Rudolph, E. (A)

Bolinas  
Case, M. D. (A)  
Maccono, F. J. (A)  
Park, C. W. (A)  
Slater, F. R. (A)  
Tanck, H. (A)

Burbank  
Clark, J. H. (A)  
Goldsmith, L. T. (A)  
Levinson, N. (M)

Burlingame  
Eldred, W. N. (A)

Compton  
Orr, F. H. (A)

Coronado  
Garard, E. A. (A)  
Hargis, D. A. (A)

Culver City  
Burns, G. A. (A)  
Kimball, H. R. (A)

Daggett  
Griffith, M. H. (A)

Eagle Rock  
Sprague, G. M. (A)

El Monte  
Krantz, C. H. (A)

Fresno  
Moore, L. T. (A)  
Simpson, H. J. (A)  
White, C. F. (S)

Gardena  
Harrington, K. D. (S)

Glendale  
Haas, P. (A)  
Newcomb, R. D. (A)  
Nolan, A. B. (A)  
Read, G. W. (A)  
Scoville, R. R. (A)  
Tate, J. W. (J)

Half Moon Bay  
Watkins, J. O. (A)

Hollywood  
Albin, F. G. (A)  
Anson, C. T. (A)  
Blackburn, J. F. (A)  
Brooke, R. O. (A)  
Denechaud, R. G. (A)  
Dreher, C. (F)  
Hansen, E. H. (M)  
Heineman, J. T. (A)  
Hilliard, J. K. (M)  
Johnson, F. L. (S)  
Ludlum, W. F. (A)  
McFarlane, M. D. (A)  
Moore, M. E. (A)  
Mueller, W. A. (A)  
Rhodes, L. G. E. (A)  
Sawyer, G. E. (A)  
Teel, W. D. (A)

Huntington Beach  
Wood, R. A. (A)

Huntington Park  
Mestas, R. (A)  
Werner, W. K. (S)

Inglewood  
Underwood, E. G. (A)

Inverness  
Canfield, N. A. (A)  
Hall, E. M. (A)  
Moorhead, G. H. (A)  
Spiegel, L. (A)  
Yokela, H. E. (A)

Jackson  
Thiel, J. V. (A)

Kingsburg  
Anderson, S. C. (S)

La Canada  
Benioff, H. (A)

La Habra  
Strupp, E. J. (A)

Long Beach  
Bernstein, H. E. (A)  
Hall, F. W. (A)  
McDowell, L. W. (A)  
Pierce, E. H. (A)  
Rector, E. M. (S)  
Tapp, J. E. (A)  
Thompson, J. W. (S)  
Wallace, D. C. (A)  
Weston, L. B. (A)

**Los Altos**  
Miller, H. C. (A)

**Los Angeles**  
Armogost, H. C. (A)  
Astorga, L. T. (A)  
Birlenbach, S. (A)  
Blasier, H. E. (A)  
Bowles, T. C. (A)  
Brace, F. R. (A)  
Brockway, D. C. (A)  
Brockway, W. W. (A)  
Bryan, W. J. (A)  
Bucknell, W. H. (S)  
Chesney, A. P. (A)  
Coe, E. W. (A)  
Cole, F. H., Jr. (A)  
Cook, R. O. (A)  
Cunningham, E. W. (S)  
Curran, G. W. (A)  
Daily, C. R. (A)  
de Forest, L. (F)  
Eastman, F. F. (A)  
Estep, C. R. (A)  
Everett, F. A. M. (A)  
Farran, D. (A)  
Flickinger, J. H. (A)  
Fox, B. M. (A)  
Grammes, R. W. (A)  
Grove, H. G. (A)  
Haralson, B. J. (A)  
Hare, R. J. (A)  
Harmon, W. S. (A)  
Hart, R. H. (M)  
Hawkins, J. N. A. (A)  
Hill, H. F. (A)  
Hund, A. (F)  
Jones, C. B. (A)  
Kennedy, D. (A)  
Kennedy, F. M. (A)  
Lewis, V. F. (A)  
Lindsay, W. W., Jr. (M)  
Lipschutz, B. (A)  
Lockhart, R., Jr. (A)  
Logan, D. C. (A)  
Loukota, D. H. (A)  
Lubcke, H. R. (M)  
Manderfield, E. C. (A)  
Merrals, F. N. (S)  
Miller, B. F. (A)  
Miller, C. E. (A)  
Moore, R. M. (A)  
Noe, M. W. (A)  
Partello, Lt. Comdr.  
Partello, M. C. (A)  
Partridge, A. J. (A)  
Paul, B. (A)  
Richards, W. S. (A)  
Riggs, C. A. (A)  
Rowe, V. G. (A)  
Schreiber, E. H. (M)  
Silent, H. C. (A)  
Silva, W. (A)  
Simmons, E. E., Jr. (A)  
Slyfield, C. O. (A)  
Thistlewhite, R. (A)  
Weaver, C. E. (A)  
Wersen, D. T. (A)

**Lynwood**  
Miller, F. A. (A)

**March Field**  
Maier, O. C. (A)

**Martinez**  
Kramer, F. S. (S)

**Menlo Park**  
Koerner, C. T. (A)

**Mill Valley**  
Behringer, D. S. (S)

**Napa**  
Streich, R. J. (A)

**North Hollywood**  
Farnsworth, H. D. (A)

**Oakland**  
Aiello, J. (A)  
Black, L. J. (A)  
Bollaert, R. (S)  
Braun, G. B. (A)  
Brodie, A. H. (A)  
Child, V. E. (S)  
Clark, O. (S)  
Forster, A. G. (A)  
Gaines, B. R. (A)  
Harbidge, E. A. (J)  
Kellogg, W. D. (A)  
Mangelsdorf, F. B. E. (A)  
McLeod, G. R. (S)  
McKay, W. M. (A)  
Mole, J. E. (S)  
Moore, R. E. (A)  
Nourse, M. S. (S)  
Okada, K. (S)  
Penther, C. J. (A)  
Schlueter, E. A. (A)  
Summers, J. W. (A)  
Wild, S. J. (A)  
Woodward, J. D. (A)

**Olympia**  
Kaufman, A. W. (A)

**Ontario**  
Butler, A. G. (A)

**Pacific Palisades**  
Dodge, R. M. (A)

**Palm Springs**  
Dine, F. E. (A)

**Palo Alto**  
Elliott, H. F. (M)  
Frink, F. W. (A)  
Fuller, L. F. (F)  
Green, I. L. (A)  
Hoehn, F. M. (A)  
Julien, I. F. (M)  
Kaar, J. M. (A)  
Rohner, A. J. (A)  
Scofield, P. F. (M)  
Sharp, J. M. (A)  
Storms, H. O. (A)  
Tinney, F. B. (A)  
Triplett, R. W. (A)  
Wunderlich, G. F. (A)

**Pasadena**  
Alcock, R. W. (J)  
Bacon, W. L. (A)  
Bertram, S. (A)  
Breitwieser, C. J. (A)  
Brown, H. C. (A)  
Hadley, C. F. (S)  
Hopkins, R. E. (A)  
Hopper, F. L. (A)  
Howes, E. T. (A)  
MacKeown, S. S. (M)  
Meyer, R. G. H. (A)  
Moore, R. M. (A)  
Mueller, C. R. (S)  
Nestler, W. W. (S)  
Nikirk, T. E. (A)  
Peterson, G. (A)  
Phillips, N. V. (A)  
Rypinski, M. C. (M)  
Shuftise, Q. M. (A)

**Petaluma**  
Klebanoff, J. H. (S)  
Sales, J. P. (A)

**Piedmont**  
Chick, A. J. (S)

**Point Reyes**  
Oates, T. J. (A)  
Reid, I. H. (A)

**Redwood City**  
Barnes, R. B. (A)  
Litton, C. V. (A)  
Miles, P. D. (A)  
Von Ohlen, F. D. (A)

**Rice**  
Miller, G. R. (A)

**Richmond**  
Watson, H. M. (A)

**Rivera**  
Barlow, R. G. (A)

**Riverside**  
Williams, R. V. (A)

**Roscoe**  
McGarry, J. (A)

**Sacramento**  
Bowman, C. S. (A)  
Jeffers, L. M., Jr. (A)  
Semoni, A. J. (A)

**San Anselmo**  
Cherry, C. E. (A)

**San Bernardino**  
Thorne, H. A. (A)

**San Bruno**  
Ekstrand, P. A. (A)  
Murray, D. A. (A)

**San Carlos**  
McAulay, W. H. (A)

**San Diego**  
Burnett, W. W. L. (A)  
Dodge, F. R. (A)  
Doig, J. H. (A)  
Dorband, E. F. (A)  
Dugan, P. F. (A)  
Ferreira, F. (A)  
Hieronymus, J. (A)  
Jackson, R. (A)  
Martin, W. H. (A)  
McBride, A. C., Jr. (A)  
Meloan, J. R. (A)  
Neelson, J. D. (A)  
Ogg, G. R. (A)  
Pitts, H. L. (M)  
Stone, J. S. (F)  
Taylor, W. T. (A)  
Wayland, R. J. (A)  
Williams, R. R. (A)  
Wisner, F. L. (A)

**San Francisco**  
Ames, E. K. (S)  
Baldwin, R. S. (A)  
Benson, F. S. (A)  
Bradley, J. T. (M)  
Brown, E. L. (A)  
Cole, C. H. (A)  
Cona, L. S. (A)  
Cone, D. I. (A)  
Cormack, A. N. (A)  
Croninger, K. B. (J)  
Culley, L. D. (A)  
Daily, H. C. (A)  
Danforth, R. S. (A)  
Dietsch, R. C. (S)  
Fass, S. J. (A)  
Foley, J. H. (A)  
Friermuth, V. J. (A)  
Gary, L. A. (A)  
Greaves, V. F. (F)  
Hanscom, W. W. (M)  
Hartwick, F. C. (A)  
Hatch, R. I. (A)  
Held, H. E. (A)  
Hewlett, W. R. (S)  
Hildgedick, W. C. (A)  
Hobrecht, J. P. (S)  
Hoffman, S. O. (A)  
Hortig, F. J. (A)

# CALIFORNIA

Hussey, W. J. (A)  
 Hyne, A. D. (S)  
 Kaufman, J. (A)  
 Kerkhof, L. M. (A)  
 Kirkland, R. D. (A)  
 Lowe, C., Jr. (A)  
 McLaughlin, H. R. (S)  
 Metcalf, H. E. (M)  
 Morrison, A. C. (A)  
 Nikonenko, P. V. (A)  
 O'Brien, M. P. (A)  
 Parkhurst, E. L. (A)  
 Powell, L. H. (A)  
 Reese, J. S. (A)  
 Sandfort, M. (A)  
 Schoenfeld, E. H. (A)  
 Schulz, P. C. (A)  
 Skinner, C. R. (A)  
 Sloan, F. V. (M)  
 Soderquist, C. J. (A)  
 Sphar, C. H. (A)  
 Stagnaro, J. A. (A)  
 Stewart, J. A. (A)  
 Towne, A. E. (A)  
 Vincent, A. M. (A)  
 Whitten, S. (A)  
 Williams, P. A. (A)  
 Winnegar, W. A. (A)

San Gabriel  
 Ashbrook, R. B. (A)

San Jose  
 Engwicht, H. (A)  
 Gillmeister, F. W. (A)  
 Kelliher, J. E. (A)  
 Quement, F. J. (A)

San Leandro  
 McKinley, H. W. (A)

San Marino  
 Grimes, W. F. (A)  
 Mason, C. W. (A)

San Mateo  
 Lebedeff, G. M. (A)  
 Van Why, F. W. (M)

San Pedro  
 Boland, J. N., (A)  
 Booth, H. A. (A)  
 Cooke, N. M. (A)  
 Homsy, J. H. (A)  
 Johnson, V. (A)  
 Martin, R. L. (A)  
 Seidl, F. A. (A)  
 Thomas, W. M. (A)  
 Trapeur, R. E. (A)  
 Tucker, D. P. (A)

San Rafael  
 Peterson, I. (A)

Santa Barbara  
 Moody, R. C. (A)

Santa Clara  
 Kusich, E. A. (A)

Santa Monica  
 Hall, H. N. (A)

Santa Paula  
 Briggs, L. G. (A)  
 Teague, D. S., Jr. (S)

South Gate  
 Kiernan, E. F. (A)

South Pasadena  
 Korntved, G. W. (A)  
 Pitzer, R. L. (S)

South San Francisco  
 Heintz, R. M. (F)

Stanford University  
 Blanchard, H. P. (S)  
 Hall, N. I. (A)  
 Sumerlin, W. T. (S)

Terman, F. E. (F)  
 Woodyard, J. R. (A)

Stockton  
 Hamma, T. G. (A)

Sutter Creek  
 Snyder, W. G., Jr. (A)

Turlock  
 Johnson, W. E. (S)

Vallejo  
 Cattell, G. W. (A)  
 Miller, J. R. (S)

Venice  
 Warne, V. J. (A)

Walnut Park  
 Weissmantel, F. A. (A)

Waterman  
 Morrin, T. H. (S)

Whittier  
 Wiggins, W. S. (A)

Wilmington  
 Skov, J. I. (A)

## COLORADO

Boulder  
 Cartwright, R. V. (A)

Colorado Springs  
 Hathaway, C. E. (A)  
 Schnell, L. J. (A)

Denver  
 Grove, W. C. (A)  
 Heiser, E. S. (A)  
 Jensen, R. R. (A)  
 Moritz, B. E., Jr. (A)  
 Owen, R. H. (A)  
 Pyle, W. D. (A)

Durango  
 Masterson, B. J. (A)

Silverton  
 Matthews, H. (A)

## CONNECTICUT

Ansonia  
 Kulikowski, E. F. (A)

Bridgeport  
 Baker, W. R. G. (F)  
 Bard, H. B., Jr. (S)  
 Barhydt, C. R. (A)  
 Beckmann, A. (A)  
 Bishop, N. (A)  
 Brockman, F. C. (A)  
 Coykendall, J. C. (A)  
 Dome, R. B. (A)  
 Fyler, G. W. (A)  
 Goldman, S. (A)  
 Kaar, I. J. (M)  
 Moe, R. E. (A)  
 Tietzworth, F. W. (A)  
 Weston, F. B. (A)  
 Wilson, J. H. (S)  
 Worcester, J. A., Jr. (A)

Fairfield  
 Bachman, W. S. (A)

Hamden  
 McNamara, F. T. (A)

Hartford  
 Bennett, J. S. (A)  
 Sanders, E. R. (A)

Kensington  
 Edgerly, A. H. (A)

Litchfield  
 Vanderpoel, F. L. (A)

Manchester  
 Reinartz, J. L. (M)

Meriden  
 Lorenz, H. F. (A)

Middletown  
 Cady, W. G. (F)  
 Van Dyke, K. S. (M)

Milford  
 Spaulding, F. E., Jr. (A)

Naugatuck  
 Wood, W. F. (A)

New Haven  
 Clements, S. E. (S)  
 Millard, A. M. (A)  
 Porter, R. W. (S)  
 Smith, F. S. (A)  
 Sohor, P. H. (M)  
 Turner, H. M. (M)

Niantic  
 Pattee, J. R. (A)

Nichols  
 Nelson, W. H. (A)

Norwalk  
 Jarvis, K. W. (F)

Norwich  
 Libby, L. L. (S)

Old Greenwich  
 Thomas, W. A., 3rd (A)

Springdale  
 Cowan, E. J. (A)

Stamford  
 Friend, H. H. (A)

Stonington  
 Nuesse, L. W. (A)

Storrs  
 Noble, D. E. (A)

Stratford  
 Austin, K. B. (A)  
 Cottrell, McK. (A)  
 Fox, F. J. (A)  
 Manke, A. G. (A)  
 Molzen, C. F. (A)  
 Maynard, J. E. (A)  
 Roder, H. (M)  
 Shofstall, N. F. (A)

Taftville  
 Cocker, H. (A)

Wallingford  
 Williams, E. M. (S)

Waterbury  
 Stevens, C. R. (A)  
 Warner, S. E. (A)  
 Winchell, A. M. (A)

West Hartford  
 Coe, R. S. (A)  
 Doolittle, F. M. (M)  
 Ferry, R. N. (S)  
 Handy, F. E. (A)  
 Hebert, A. A. (M)  
 Warner, K. B. (F)

Westport  
 Hanson, O. B. (M)  
 Perry, W. A. (A)

Wethersfield  
 Carini, L. F. B. (A)

## DELAWARE

New Castle  
 Taylor, E. A. (A)

Wilmington  
 Casey, K. K. V. (A)



## GEORGIA

Snyder, J. G. (A)  
Tatnall, J. S. (A)  
Van Sant, F. T. (A)

### DISTRICT OF COLUMBIA

#### Anacostia

Armstrong, R. W. (A)  
Arnold, P. N. (A)  
Beard, D. C. (A)  
Fetsch, J. T., Jr. (A)  
Gebhard, L. A. (A)  
Gunn, R. (A)  
Haire, A. F. (A)  
Hromada, J. C. (A)  
Johannessen, H. R. (A)  
Miller, H. R. (A)  
Moore, A. H. (A)  
Owens, R. B. (M)  
Rieger, W. (A)  
Smith, H. L. (A)  
Taylor, A. H. (F)  
Wallace, J. D. (A)  
Williams, C. H. (A)

#### Benning

Curtis, W. F. (A)

#### Chevy Chase

Diamond, H. (M)

#### Takoma Park

Aurynger, J. J. (A)  
Johnson, E. A. (A)

#### Washington

Allman, F. L. (A)  
Albertson, F. W. (A)  
Backus, C. D. (M)  
Bailey, S. L. (M)  
Baker, T. S. (A)  
Barron, J. H. (M)  
Bates, J. F., Jr. (A)  
Bender, L. B. (M)  
Biser, M. H. (A)  
Bower, W. E. (A)  
Brown, T. H. (A)  
Buchanan, J. P., Jr. (A)  
Burgess, W. B. (M)  
Burke, D. J., Jr. (A)  
Caldwell, L. G. (M)  
Casanova, R. (A)  
Chamberlin, R. R. (A)  
Chambers, J. A. (M)  
Clark, R. L. (A)  
Clarke, A. S. (A)  
Codel, M. (A)  
Cogswell, W. P. (A)  
Cole, N. D. (A)  
Colvin, R. (A)  
Combs, E. E., Jr. (A)  
Corrigan, J. T. (A)  
Cottrell, A. (A)  
Craven, T. A. M. (F)  
Crawford, D. M. (A)  
Culver, R. H. (A)  
Davis, C. L. (M)  
Davis, G. C. (A)  
Davis, T. McL. (M)  
Dellinger, J. H. (F)  
Dingley, E. N., Jr. (A)  
Dorsey, H. G. (F)  
Dow, J. B. (M)  
Forster, K. L. (A)  
Furth, F. R. (A)  
Garrison, M. M. (M)  
George, W. D. (A)  
Gillett, G. D. (F)  
Gilliland, T. R. (A)  
Girard, E. J. (M)  
Gough, J. H. (A)  
Goulett, W. B. (A)  
Guthrie, F. P. (M)  
Hall, E. L. (A)  
Hamm, J. L. (A)  
Harding, L. M. (A)  
Harrison, A. E. (A)  
Hastings, H. F. (A)  
Heaton, V. E. (A)  
Heatwole, E. P. (A)  
Hightleyman, R. (M)  
Hinemon, J. H., Jr. (A)  
Holt, L. J. (A)  
Hooper, S. C. (A)  
Hull, D. R. (A)  
Hull, M. I. (A)  
Hunt, C. M. (A)  
Hyland, L. A. (A)  
Jackson, W. E. (M)  
Jacocks, T. B. (A)  
Jansky, C. M., Jr. (F)  
Kaufman, J. (M)  
Kear, F. C. (M)  
Kinley, C. B. (A)  
Kirby, S. S. (A)  
Lane, R. E. (S)  
Lapham, E. G. (A)  
Lee, W. J. (M)  
Linger, R. A. (A)  
Loftin, E. H. (M)  
Lohnes, G. M. (S)  
Lounes, P. G. (A)  
Lovejoy, E. W. (M)  
Maddox, C. H. (M)  
Marriner, A. W. (A)  
McIlwraith, C. G. (A)  
McNary, J. C. (M)  
Mickey, L. (A)  
Mirick, C. B. (M)  
Moulton, T. S. (A)  
Meyers, G. B. (A)  
Neely, G. M. (A)  
Norton, K. A. (A)  
Ould, R. S. (A)  
Page, R. M. (A)  
Pennaroli, M. (A)  
Perkins, O. D. (A)  
Pettersson, W. N., Jr. (A)  
Pierce, J. F. (A)  
Pirtle, J. H. (A)  
Poast, LaV. M. (A)  
Powell, E. L. (M)  
Redington, E. B. (A)  
Rietzke, E. H. (M)  
Ring, A. D. (A)  
Rohrich, G. J. (A)  
Segal, P. M. (M)  
Sherman, W. K. (A)  
Smith, J. E. (M)  
Soukaras, K. M. (A)  
Spittle, S. E. (A)  
Sprayberry, F. L. (A)  
Stahl, B. E. (A)  
Stansfield, J. O. (A)  
Stewart, J. D. (M)  
Stewart, R. B. (M)  
Stillwell, R. R. (A)  
Struthers, F. W. (A)  
Taylor, M. (S)  
Terrell, W. D. (F)  
Teunisson, J. F. (A)  
Wadsworth, H. A. (A)  
Watson, R. D. (A)  
Webster, E. M. (A)  
Wells, H. W. (M)  
Wells, W. B. (A)  
Wheeler, L. P. (F)  
White, N. (A)  
Wright, J. W. (A)  
Zandonini, E. M. (A)

## FLORIDA

#### Bradenton

Lampkin, G. F. (A)

#### Coconut Grove

Brake, P. (A)  
Hoselton, F. B. (A)

#### Coral Gables

Larson, I. W. (A)

#### Gainesville

Bailey, R. D. (S)  
Duncan, F. B. (A)  
Von Dohlen, H. W., Jr. (A)

#### Hialeah

Allston, W. F. (A)  
Murr, V. E. (A)  
Winchel, H. T. (A)

#### Lake Worth

Graves, A. C. (A)

#### Miami

Borton, F. W. (A)  
Cameron, J. R. (A)  
Clark, W. R. (A)  
Corrigan, C. J. (A)  
Gilbert, J. C. (A)  
Harpley, D. (A)  
Jones, E. J. (A)  
McKee, C. W. (A)  
Scott, M. C., Jr. (A)  
Smith, G. M. (A)  
White, W. R. (A)

#### Miami Beach

Dunham, J. S. (A)  
Jensen, J. O. (A)

#### Miami Springs

Stevens, S. (A)

#### Palatka

Peterson, T. R. (A)

#### St. Petersburg

Link, L. J. (A)

#### Tallahassee

Orr, H. R. (A)

#### Tampa

Moore, W. P. (A)  
White, J. D., Jr. (A)

## GEORGIA

#### Atlanta

Akerman, B. (A)  
Baker, R. W. (A)  
Caulfield, T. D. (A)  
Coe, J. C. (A)  
Coleman, G. A. (A)  
Daugherty, C. F. (A)  
Fowler, N. B. (A)  
Gerks, I. H. (A)  
Haeger, J. R. (J)  
Holey, W. J. (A)  
Hoen, C. H. (A)  
Owen, C. W. (S)  
Owens, W. B. (S)  
Parkins, F. A. (A)  
Ratcliff, W. H., Jr. (S)  
Reesor, D. A. (A)  
Reid, H. L. (A)  
Stephens, H. W. (A)  
Thornton, H. P. (A)  
Trammell, R. D. (A)  
Turner, G. S. (M)

#### Chamblee

Winfree, R. W. (A)

#### Commerce

Hood, S. (A)

#### Decatur

Bangs, P. C. (A)

#### Jonesboro

Heely, O. H. (A)

#### La Grange

White, C. J., Jr. (A)

#### Macon

Elder, R. K. (A)  
Preston, J. G. (A)

#### Quitman

Underwood, F. C., Jr. (A)

## GEORGIA

Savannah  
 Carlson, C. O. (A)  
 Statesboro  
 Blitch, J. D. (A)  
 Jones, W. L., Jr. (S)

### IDAHO

Idaho Falls  
 Taylor, R. L. (A)  
 Moscow  
 Byrne, M. E. (S)  
 Carsow, C. G. (A)  
 Nampa  
 Martin, C. S. (A)  
 Pocatello  
 Wilson, T. J. (A)  
 Wallace  
 Heuser, E. R. (A)

## ILLINOIS

Bellwood  
 Flick, A. A., Jr. (A)  
 Berwyn  
 Burns, E. E. (A)  
 Komm, P. M. (A)  
 Novy, J. F. (A)  
 Prentiss, J. G. (A)  
 Schnell, W. J. (A)  
 Canton  
 Ingersoll, W. P. (A)  
 Centralia  
 Duncan, D. C. (A)  
 Charleston  
 Stoddert, T. M. (A)

### Chicago

Allen, H. E., Jr. (A)  
 Andres, L. J. (M)  
 Andrew, V. J. (M)  
 Andrews, E. F. (A)  
 Argento, H. F. (A)  
 Armstrong, H. W. (A)  
 Beusman, R. M. (A)  
 Bowen, J. L. (A)  
 Braun, W. C. (A)  
 Bridgman, F. K. (A)  
 Brittin, F. L. (M)  
 Brunner, R. R. (A)  
 Buckthal, E. P. (A)  
 Canon, H. B. (A)  
 Cantonwine, C. R. (A)  
 Carlson, E. C. (A)  
 Carter, A. J. (M)  
 Clausung, L. M. E. (A)  
 Clough, K. (A)  
 Corcoran, A. E. (A)  
 Crossett, E. C. (A)  
 Crossley, A. (M)  
 Devine, W. F. (A)  
 DeWeese, H. W. (A)  
 Donaldson, R. J. (A)  
 Eltgroth, G. V. (A)  
 Fasulo, J. C. (A)  
 Fetterman, D. M. (A)  
 Fischer, A. J. (A)  
 Forbes, A. C. (M)  
 Forsberg, O. J. (A)  
 Fortington, W. H. (M)  
 Fox, J. E. (A)  
 Frank, C. W. (A)  
 Fritz, J. A. (A)  
 Giese, R. C. (M)  
 Glover, R. P. (A)  
 Goode, K. H. (A)  
 Gorbunoff, A. (A)  
 Gray, D. (A)  
 Gray, K. (A)  
 Hanik, P., Jr. (A)  
 Hansen, L. S. (A)

Hansen, W. H. (A)  
 Harris, S. G. (A)  
 Hassel, K. E. (M)  
 Hathaway, J. F. (A)  
 Hayes, H. D. (M)  
 Hermann, W. F. (A)  
 Herrick, R. H. (A)  
 Hilliard, W. P. (A)  
 Hoag, J. B. (M)  
 Huckle, H. M. (A)  
 Hutchens, R. D. (A)  
 Huxtable, C. K. (A)  
 Inman, J. F. (A)  
 Jackson, C. H. (A)  
 Jacob, F. N. (A)  
 Johnson, J. K. (M)  
 Johnston, E. L. (A)  
 Jones, M. R. (A)  
 Kadell, H. W. (A)  
 Kadri, S. S. (A)  
 Kayner, H. J. (A)  
 Kealy, D. (J)  
 Kelsey, E. L. (A)  
 Keogh, R. J. (A)  
 Klein, N. E. (A)  
 Knowles, H. S. (A)  
 Kohler, E., Jr. (A)  
 Kramer, A. W. (A)  
 Lair, J. R. (A)  
 Larsen, C. J. (M)  
 Leidy, W. J. (A)  
 Levenberg, M. H. (A)  
 Levin, S. (A)  
 Lichtman, S. W. (A)  
 Luttgens, H. C. (A)  
 Magee, M. (A)  
 Maki, G. J. (A)  
 Manatt, J. H. (J)  
 Marks, M. (A)  
 Marquardt, M. F. (A)  
 Marshall, C. E. (A)  
 Martens, R. L. (A)  
 Martin, G. I. (M)  
 McGinley, J. C. (A)  
 McIlilton, DeW. (A)  
 McMahon, R. J. (A)  
 McMaster, A. J. (A)  
 Meinhard, H. M. (A)  
 Michal, L. V. (A)  
 Mills, E. E. (A)  
 Miron, V. C. (A)  
 Mitchell, D. H. (A)  
 Monderer, B. A. (S)  
 Mueller, E. L. (A)  
 Murray, F. H. (A)  
 Nordhaus, C. H. (A)  
 Novak, J. J. (A)  
 Offner, F. F. (A)  
 O'Pink, B. F. (A)  
 Patelke, R. A. (A)  
 Paul, G. S. (A)  
 Petry, C. A. (A)  
 Petzing, E. W. (A)  
 Plotts, E. L. (A)  
 Remde, J. (A)  
 Rennick, J. L. (A)  
 Richie, S. M. (A)  
 Riddell, O. A. (A)  
 Rodriguez, A. E. (A)  
 Roe, D. J. (A)  
 Rose, J. K. (A)  
 Ross, K. B. (A)  
 Scaruff, J. (J)  
 Seales, L. B. (A)  
 Schnell, F. H. (M)  
 Schoenwolf, F. L. (M)  
 Schor, F. W. (A)  
 Schrader, W. A. (A)  
 Schreyer, T. E. (A)  
 Scott, E. H. (M)  
 Sear, A. W. (A)  
 Silver, M. (A)  
 Six, W. E. (A)  
 Skinner, C. F. (A)  
 Slugodski, L. K. (A)  
 Smith, A. B. (M)

Smith, E. F. (M)  
 Smith, P. S. (A)  
 Smythe, E. H. (M)  
 Starrett, J. S. (A)  
 Stein, H. A. (A)  
 Stone, C. H. (M)  
 Streich, F. W. (A)  
 Stromatt, F. C. (A)  
 Swank, W. B. (S)  
 Thorson, W. G. (A)  
 Thrun, A. G. (A)  
 Tucker, J. P. (A)  
 Tulauskas, L. (A)  
 Turner, J., Jr. (A)  
 Turnquist, L. (A)  
 Van Niman, R. T. (A)  
 Wallace, J. T. (A)  
 Warriner, C. H. (A)  
 Weber, R. I. (A)  
 Weinstein, D. D. (J)  
 Wesselman, E. (A)  
 Wilcox, G. M. (M)  
 Wilson, D. M. (A)  
 Woods, A. A. (A)  
 Yoder, R. S. (A)  
 Zender, R. G. (A)

De Kalb  
 Pries, L. F. (A)  
 Des Plaines  
 Bortoff, P. A. (A)  
 Gunther, W. J. (A)  
 Downers Grove  
 Allen, J. (A)  
 Beard, C. E. (A)  
 Courchene, H. B. (A)  
 Davis, E. J. (A)  
 Eddy, W. L. (S)  
 Johnson, A. R. (A)  
 Moffett, LeR., Jr. (A)  
 Vance, H. C. (M)  
 East St. Louis  
 West, W. H. (M)  
 Elgin  
 Kadow, A. C. (A)  
 Myers, C. J. (A)  
 Elmhurst  
 Kranz, H. E. (M)  
 Lindsay, W. R. (A)  
 Squires, E. G. (A)  
 Trout, E. D. (A)  
 Evanston  
 Chalberg, H. W. A. (J)  
 Manly, H. P. (A)  
 Forest Park  
 McCarthy, F. M. (A)  
 Fort Sheridan  
 Benfer, E. L. (A)  
 Freeport  
 O'Connell, G. (A)  
 Whitlock, F. W. (A)  
 Flossmoor  
 Falknor, F. B. (M)  
 Glenview  
 Burnham, E. (A)  
 Hansen, T. A. (A)  
 Pond, R. F. (J)  
 Great Lakes  
 Hogg, W. S., Jr. (M)  
 Harrisburg  
 Schonert, K. E. (A)  
 Hinckley  
 Jackson, W. C. (S)  
 Hinsdale  
 Doyle, E. J. (A)

- Joliet**  
 Sandretto, P. C. (A)
- Kenilworth**  
 Lahman, W. C. (A)
- La Grange**  
 Knouf, R. J. (M)  
 Mellor, W. N. (A)
- Lockport**  
 Carter, O. M. (A)
- Lombard**  
 Wells, W. J. (A)
- Morrison**  
 Van Osdol, R. L. (A)
- Mount Carmel**  
 Carduner, W. (A)  
 Weber, L. J. (A)
- Mount Prospect**  
 Gustafson, G. E. (A)
- Oak Park**  
 Kenney, M. W. (M)  
 Pye, H. C. (A)  
 Robinson, G. D. (A)  
 Spicer, F. D. (S)  
 Stover, A. R., Jr. (A)  
 Winkler, M. R. (A)  
 Woodruff, A. E. (A)
- Ottawa**  
 Wirkler, W. H. (A)
- Pecatonica**  
 Van Antwerp, M. C. (A)
- Pekin**  
 McGarvey, H. R. (A)
- Peoria**  
 Planck, R. M. (A)  
 Shalkhauser, E. G. (M)
- Rantoul**  
 Allen, F. G. (A)  
 Kuhlman, P. W. (A)  
 Richard, C. W. (M)
- Riverside**  
 Wilkinson, L. G. (A)
- Rockford**  
 Bullen, C. V. (A)  
 Hand, C. A. (A)
- Rock Island**  
 Palmer, P. S. (A)
- St. Charles**  
 Alford, H. W. (A)  
 Anderson, C. A. (A)  
 McCraigh, J. F. (A)  
 Weibler, C. T. (A)
- South Chicago**  
 Kahn, L. (A)
- Springfield**  
 Ring, E. F. (A)  
 West, G. E. (M)  
 Whannel, R. L. (A)
- Tuscola**  
 Spies, M. C. (A)
- Urbana**  
 Brown, H. A. (M)  
 Knipp, C. T. (M)  
 Reich, H. J. (A)  
 Tykociner, J. T. (M)
- Villa Park**  
 Fernandez, D. T. (A)
- Waukegan**  
 Ball, I. D. (A)  
 Herrmann, A. A., (A)
- Western Springs**  
 Scott, K. L. (A)
- Wheaton**  
 Fettweis, C. P. (A)  
 Matthews, G. D. (A)  
 Reber, G. (A)
- Wilmette**  
 Klapperich, A. J. (A)  
 Orner, R. J. (A)  
 Polydoroff, W. J. (M)
- Winnetka**  
 Brown, J. E. (M)
- Zion**  
 Jacker, E. W. (A)
- INDIANA**
- Angola**  
 English, R. R. (S)  
 Love, B. E. (A)
- Aurora**  
 Achatz, R. V. (A)
- Bloomington**  
 Ramsey, R. R. (M)
- Carmel**  
 Brown, W. E. (A)
- Columbus**  
 Andres, P. G. (A)  
 Baker, J. M. (A)  
 Booth, E. C. (A)  
 Crouch, J. (A)  
 Dougherty, R. (A)  
 Irwin, B. H. (A)  
 Mason, H. J. (A)  
 Patterson, W. M. (A)  
 Perry, W. R. (A)  
 Wolcott, C. F. (M)
- Crawfordsville**  
 Doyel, L. C. (A)
- Crown Point**  
 Hamilton, G. H. (A)  
 Murphy, E. J. (A)
- Elkhart**  
 Schuck, O. H. (A)
- Evansville**  
 Moutoux, E. G. (A)
- Fort Wayne**  
 Ambrose, P. J. (S)  
 Cornell, J. I. (M)  
 Dreisbach, R. H. (A)  
 Fischer, F. W. (A)  
 Freimann, F. (A)  
 Gilder, J. A. (S)  
 Jones, R. B. (A)  
 Koonz, J. C. (A)  
 Kowalski, C. A. (S)  
 Palguta, E. M. (S)  
 Ratts, B. H. (A)  
 Schaaf, R. H. (A)  
 Toy, E. S. (S)  
 Wise, C. E. (A)
- Fulton**  
 Gray, F. E. (M)
- Gary**  
 Shirk, K. C. (A)
- Hope**  
 Miller, F. (A)
- Indianapolis**  
 Arvin, M. J. (A)  
 Audritsh, Z. E. (A)  
 Aust, R. J. (A)  
 Batts, R. L. (A)  
 Boji, L. D. (A)  
 Buhl, W. T. (A)  
 Carpenter, G. W. (A)  
 Curry, A. A. (A)  
 DeVoe, L. M. (A)  
 Ealy, J. W. (A)  
 Earl, E. O. (A)
- Frankel, M. (M)  
 French, B. V. K. (M)  
 Garstang, W. W. (M)  
 Glassman, G. H. (A)  
 Goetz, L. R. (A)  
 Guthiel, C. M. (A)  
 Lewis, R. O. (A)  
 MacNabb, V. C. (A)  
 Mallory, H. R. (A)  
 Musser, C. W. (A)  
 Nichols, J. L. (A)  
 Passow, E. B. (A)  
 Peck, G. V. (A)  
 Reager, A. M. (A)  
 Rinehart, B. H. (A)  
 Rosser, T. N. (A)  
 Schwarzenbach, E. E. (A)  
 Slater, I. M. (A)  
 Smith, B. J. (A)  
 Vaughan, B. W. (A)  
 Ware, P. (A)  
 Wiley, J. L. G. (A)
- Kendallville**  
 Trowbridge, B. (S)
- Kokomo**  
 Archer, S. W. (A)  
 Hobbs, M. (A)  
 Marlow, W. C., Jr. (A)  
 Parkhurst, A. F. (M)  
 Schwarz, B. A. (M)
- La Porte**  
 Marshall, E. L. (A)
- Marion**  
 Hilligoss, D. R. (A)
- New Haven**  
 Goodnow, A. C. (A)
- Oxford**  
 Bloom, G. (A)
- Richmond**  
 Timmons, F. E. (A)  
 Weller, W. C. (A)
- Rushville**  
 Cox, W. (A)
- Terre Haute**  
 Crozier, W. D. (A)  
 Michael, D. F. (A)  
 Moench, H. A. (A)
- Tipton**  
 Gaiser, M. W. (A)
- Valparaiso**  
 Hershman, J. B. (A)  
 Hoyt, C. F. (A)  
 Packman, M. E. (A)
- West Lafayette**  
 Aiken, C. B. (M)  
 Bernstein, J. R. (S)  
 Cheng, C. C. (S)  
 Ebel, A. J. (A)  
 Liu, I. L. (S)  
 Lutz, S. G. (A)  
 Reedy, P. H. (S)
- IOWA**
- Algona**  
 Rising, V. K. (S)
- Ames**  
 Harder, R. B. (S)  
 Plummer, W. B. (S)  
 Stewart, W. E. (A)
- Cedar Rapids**  
 Beetham, R. B. (A)  
 Collins, A. A. (A)  
 Hauser, P. D. (S)  
 Smith, M. S. (A)
- Corydon**  
 Dillaplain, V. L. (J)



## IOWA

Council Bluffs  
Bullock, M. W. (A)

Des Moines  
Pierce, F. W. (A)  
Rissler, H. D. (A)  
Stauffer, R. E. (A)

Hartley  
Grotewohl, H. D. (A)

Independence  
Stevens, C. B. (A)

Iowa City  
Griffith, P. E. (A)  
Huston, O. H. (A)  
Potter, J. L. (A)

McGregor  
Woods, T. DeW. (A)

Shenandoah  
English, W. K. (A)

Stuart  
Nielsen, H. A. (A)

Winfield  
Hahn, J. H. (A)

## KANSAS

Ellis  
Harrison, L. A. (A)

Emporia  
Miller, R. F. (A)

Fort Leavenworth  
Buckley, M., Jr. (A)  
McClelland, H. M. (M)

Leavenworth  
Hageman, O. C. (A)

Manhattan  
Schumann, F. (A)  
Peery, W. E. (A)

Ottawa  
Putnam R. E. A. (A)

Sabetha  
Evans, R. L. (S)

Salina  
Mitchell, W. R. (A)

Topeka  
Burns, L. V. (A)  
Cook, J. W. (A)  
Troeglen, K. (A)

Wichita  
Byers, H. O. (A)  
Hollister, H. (A)

## KENTUCKY

Covington  
Jacobs, Y. (S)  
Topmiller, C. H. (A)

Fort Thomas  
Kolo, R. E. (A)

Louisville  
Hudson, W. E. (A)

Ludlow  
Reynolds, D. J. (A)

Owensboro  
Bain, G. W. (A)  
Biver, C. J. (A)  
Knouse, J. J. (A)

Prestonsburg  
Davis, R. B. (A)

South Newport  
Richards, A. P. (M)

## LOUISIANA

Alexandria  
Curtis, P. E. (A)

Baton Rouge  
Parkinson, T. (A)

New Orleans  
Adler, L. E. (A)  
Amis, S. W. (A)  
Bloom, J. D., Jr. (A)  
Bowman, D. W. (A)  
Clemmons, W. A. (A)  
Courtenay, J. A. (A)  
Cronvich, J. A. (S)  
Deiler, T. G. (M)  
Du Treil, L. J. N. (M)  
Ellingson, H. J. (A)  
Lehde, P. E. (F)  
Nebe, H. G. (A)  
Peirce, G. H. (A)  
Pendergrass, F. L. (A)  
Williams, L. P. (M)  
Young, J. L. H. (A)

Shreveport  
Antony, W. E. (A)  
Garrett, E. D. (A)  
Neil, W. L. (A)

## MAINE

Bangor  
Creamer, W. J., Jr. (A)  
Hodgkins, R. W. (A)

Brewer  
Lawson, N. H. (A)

Brunswick  
Little, N. C. (A)

Kittery  
Remick, E. C. (A)

Newcastle  
Martin, D. (A)

Orono  
Crabtree, K. G. (A)  
Matchett, W. E. (S)  
Roberts, E. L. (A)

Portland  
Collins, L. R. (A)  
Kenneson, H. C. (S)  
Robbins, I. L. (A)

South Portland  
Stuckert, E. M. (A)

## MARYLAND

Aberdeen  
Hodge, A. H. (A)

Annapolis  
Bailey, W. B. (A)  
Giet, G. R. (A)  
Howard, D. G. (A)  
Ryan, C. M. (A)

Anneslie  
Kreis, A. L. (A)

Baltimore  
Allen, J. E. (A)  
Bassford, S. W., Jr. (A)  
Campbell, W. H. (M)  
Cooke, G. W. (A)  
Eckels, A. E. (A)  
Ellert, C. A. (A)  
Gerhold, N. S. (A)  
Graf, H., Jr. (A)  
Hamburger, F., Jr. (A)  
Hannah, G. M. (A)  
Houston, G. P., 3rd. (A)  
Krebs, W. N. (A)  
Lange, E. H. (A)  
Miller, J. P. (A)  
Plummer, W. E. (M)

Ridenour, W. S. (A)  
Stout, G. P. (A)

Bethesda  
Asserson, R. (M)  
Cohen, L. (F)  
Stanton, H. E. (A)

Betterton  
Haynes, J. M. (A)

Chevy Chase  
Berkner, L. V. (M)  
Jett, E. K. (A)  
Kelley, G. W., Jr. (A)  
Walls, H. J. (M)  
White, E. L. (M)

Curtis Bay  
Dillow, A. P. (A)

Dundalk  
McKeel, P. D. (A)

Edgemoor  
Drury, P. O. (A)

Hyattsville  
Lyon, H. H. (A)  
Young, L. C. (M)

Laurel  
Brady, L. R. (A)

Lynthicum Heights  
Brian, J. M. (A)

Rockville  
Meyers, A. H. (A)

Riverdale  
Webb, W. L. (A)

Salisbury  
Powell, L. D. (A)

Silver Spring  
Davies, G. L. (M)  
Terrell, R. L. (A)  
Quaintance, L. C. (A)  
Thomsen, P. H. (A)

Somerset  
Brady, J. B. (M)

Stoneleigh  
Sterling, G. E. (M)

Takoma Park  
Morris, T. W. (A)  
Sutherland, J. A. (A)

Washington Grove  
Seaton, S. L. (A)

Waterbury  
Bless, R. H. (J)

## MASSACHUSETTS

Arlington  
Bacon, D. H. (A)  
Chute, D. H. (A)  
Dallin, E. B. (M)  
Hall, W. N. (A)

Arlington Heights  
Gregson, R. L. (S)  
Lamson, H. W. (F)

Atlantic  
Brown, G. W. (A)  
Heap, S. S. (A)

Auburndale  
Clapp, J. K. (F)  
Morehouse, W. B. (M)

Beach Bluff  
Krahl, W. L. (M)

Belmont  
Anthony, A. W., Jr. (A)  
Clayton, J. M. (M)  
Cobine, J. D. (A)

- Dolbear, B. L. (M)  
 Grant, L. E. (A)  
 Lane, H. M. (M)  
 Levan, J. D. (A)  
 McElroy, P. K. (F)
- Beverly**
- Biggs, O. H. (A)  
 Carnahan, C. W. (A)  
 O'Neill, G. D. (A)  
 Porter, R. G. (A)
- Boston**
- Baird, H. S. (A)  
 Beakes, W. E. (M)  
 Cabot, G. E. (M)  
 Cifre, J. S. (A)  
 Coomes, E. A. (A)  
 Cumming, L. G. (A)  
 de Mars, P. A. (M)  
 Gemmill, F. Q. (S)  
 Greene, L. C. (A)  
 Griffith, M. H. (A)  
 Hallenstein, N. A. (A)  
 Hastings, T. M., Jr. (A)  
 Hayes, H. V. (A)  
 Henry, J. M. (A)  
 Hildebrand, J. G., Jr. (A)  
 Kenny, M. (A)  
 Mauran, J. (A)  
 Morris, G. W. (A)  
 Myer, D. A. (A)  
 Oberg, R. O. (A)  
 Palmer, R. T. (A)  
 Putnam, J. P. (A)  
 Rines, D. (A)  
 Rulon, M. C. (S)  
 Van Voorst, M. (A)  
 Welsh, F. E. (A)
- Brighton**
- Rockwood, A. C. (M)  
 Wallace, G. S. (A)  
 Yurt, F. X. (A)
- Brockton**
- Mac Adam, M. L. (M)  
 Nye, J. H. (J)  
 Sampson, E. J. F. (A)
- Brookline**
- Cabot, S. (M)  
 Harvey, C. A. (A)  
 Mac Adam, W. K. (S)  
 Ready, W. A. (A)  
 Rogers, W. S. (A)  
 Shermund, R. C. (M)
- Cambridge**
- Adams, J. C. (S)  
 Altman, F. J. (S)  
 Anderson, W. C. (A)  
 Barrow, W. L. (A)  
 Batchelder, L. (A)  
 Beranek, L. L. (S)  
 Bousquet, A. G. (A)  
 Bowles, E. L. (M)  
 Buckingham, S. A. (A)  
 Cady, C. A. (A)  
 Chaffee, E. L. (F)  
 Chang, C. H. (S)  
 Chang, H. (S)  
 Dawes, H. H. (A)  
 Eastham, M. (F)  
 Fahnestock, H., Jr. (A)  
 Farmer, D. E. (S)  
 Fletcher, R. E. (A)  
 Gager, F. M. (A)  
 Griffith, B. W. (S)  
 Hall, H. H. (A)  
 Hall, W. M. (A)  
 Hickman, R. W. (A)  
 Horton, J. W. (F)  
 Hunt, F. V. (A)  
 Ireland, F. (A)  
 Jervis, E. R. (A)  
 Karplus, E., (A)  
 Kennelly, A. E. (F)  
 Kerr, D. E. (S)
- King, H. F. (A)  
 LaForge, L. H., Jr. (S)  
 Lewis, F. D. (S)  
 Lewis, G. A. (S)  
 Maximoff, B. S. (S)  
 Mooney, V. J. (S)  
 Morris, F. G., Jr. (S)  
 Nute, P. R. (A)  
 Packard, L. E. (S)  
 Pepperberg, L. E. (S)  
 Peterson, A. P. G. (S)  
 Phillips, H. B. (M)  
 Pierce, G. W. (F)  
 Richmond, H. B. (F)  
 Robinson, E. B. (A)  
 Selvidge, H. (A)  
 Shaw, H. S. (F)  
 Shepherd, J. E. (A)  
 Stetson, H. T. (A)  
 Thiessen, A. E. (M)  
 Tucker, C. E. (M)  
 Tuttle, D. F., Jr. (S)  
 Tuttle, W. N. (A)  
 Webster, W. G. (A)  
 Wildes, K. L. (A)  
 Wood, J. A., Jr. (A)  
 Woodward, W. R. (A)  
 Worthen, C. E. (M)  
 Wu, I. L. (S)
- Chestnut Hill**
- Pitts, F. D. (A)
- Chicopee Falls**
- Atwood, B. E. (A)  
 Biernacki, F. L. (A)  
 Burnside, C. J. (A)  
 Evans, W. C. (M)  
 Gregory, S. D. (A)  
 Kinn, T. P. (A)  
 Kinsman, W. D. (A)  
 Scheer, F. H. (A)
- Cohasset**
- Gagnebin, W. B. (A)
- Danvers**
- Goldsmith, O. B. (A)  
 McCarthy, H. J. (A)
- Dorchester**
- Clarke, R. S. (A)  
 Dufourd, A. J. (S)
- Fall River**
- Bowen, H. C. (A)
- Foxboro**
- Ouimet, V. E. (A)
- Gloucester**
- Hammond, J. H., Jr. (M)
- Great Barrington**
- Barkley, H. F. (A)
- Hamilton**
- Dane, F. W. (M)
- Hingham**
- Harris, C. C. (M)  
 Phelps, R. E. (A)  
 Pratt, F. (A)
- Holliston**
- Garceau, L. (A)
- Holyoke**
- Webber, F. G. (A)
- Hyannis**
- Hatch, E. (A)
- Hyde Park**
- Gould, W. B., 3rd. (A)
- Leominster**
- Cialdea, G. M. (A)
- Lexington**
- Cook, J. H. (S)  
 Pilkington, F. J. (A)  
 Sinclair, D. B. (A)
- Longmeadow**
- Booth, J. D. (A)  
 Brackett, Q. A. (M)  
 Cohen, M. (A)  
 Filgate, J. T. (M)
- Lowell**
- Landry, L. H. (A)
- Lynn**
- Bauer, P. S. (A)  
 Meader, R. B. (M)  
 Rich, G. C. (A)
- Malden**
- Millen, J. (A)
- Mansfield**
- Dean, L. W. (A)
- Marion**
- Backus, C. H. (A)
- Mattapan**
- Rothberg, J. (A)
- Medford**
- Barnes, J. L. (A)  
 Harrison, J. R. (A)
- Melrose**
- Hubbard, B. R. (A)  
 Jepson, W. F. (A)
- Millis**
- Elmore, J. H. (A)
- Milton**
- Bradshaw, D. B. (A)  
 Hoard, N. F. (A)  
 Pear, C. B., Jr. (A)
- Nahant**
- Dick, R. T. (A)
- Needham**
- Keim, J. D. (A)
- Newton**
- Briggs, T. H., Jr. (A)  
 Colby, C. C., Jr. (A)  
 Lowery, W. E. (A)  
 Mueller, C. W. (A)  
 Nelson, J. R. (M)  
 Yamins, H. G. (A)
- Newtonville**
- Dillaby, E. F. (A)
- North Weymouth**
- Hollis, H. H. (A)  
 Imlach, G. (A)
- Norwood**
- Whittier, E. W. (A)
- Osterville**
- Chesbro, A. L. (A)
- Oxford**
- Browning, E. A. (A)
- Revere**
- Gelardi, M. (A)
- Roslindale**
- Gross, F. A. (A)
- Rowley**
- Hoopes, T. T. (A)
- Salem**
- Allen, G. D. (A)  
 Bacon, F. S., Jr. (S)  
 Ellithorn, H. E. (A)  
 Hartwell, H. G. (A)  
 Heins, H. (A)  
 Poor, W. E. (A)  
 Porter, R. H. (A)  
 Swan, R. A., Jr. (A)
- Siasconset**
- Holden, H. H. (A)

# MASSACHUSETTS

Somerville  
Hisamoto, M. (A)  
Kolster, C. C. (M)  
Rockwell, S. A. (A)

Southbridge  
Wells, J. M. (A)

South Lancaster  
Jones, G. E. (A)

South Weymouth  
Fisher, A. B. (A)

Springfield  
Bassett, E. D. (A)  
Benson, S. E. (A)  
Blanchard, D. E. (A)  
Bond, M. E. (A)  
Boyd, B. (A)  
Cahalan, E. T. (A)  
Curtis, L. F. (M)  
Cushing, T. F. (A)  
Fratrar, F. J. (A)  
Freck, R. H. (A)  
Garvey, E. (A)  
Harmon, R. N. (A)  
Holt, H. W. (A)  
Hutcheson, J. A. (M)  
Johnson, P. K. (A)  
Keeler, C. E. (A)  
Lee, R. (A)  
Little, D. G. (F)  
Lyman, J. R. (S)  
Madsen, C. J. (A)  
Parker, W. H., Jr. (A)  
Walker, C. L. (A)

Swampscott  
Curtis, K. V. (A)

Taunton  
Tracy, J. B., Jr. (A)

Waltham  
Anderson, H. G. (A)

Watertown  
Burke, C. T. (M)  
Field, R. F. (M)  
Henderson, F. C. (A)  
King, P. B., Jr. (A)  
McGaughey, P. C. (A)

Wellesley  
McDowell, L. S. (M)

Wellesley Farms  
Hills, C. E., Jr. (A)

Wellesley Hills  
Eager, M. (A)  
Weeks, P. T. (M)

West Falmouth  
Moore, J. (A)

West Medford  
Ayer, J., Jr. (S)

Weston  
Lyman, F., Jr. (A)

West Springfield  
Sateren, M. G. (A)

Winchester  
Browning, G. H. (M)  
Page, N. C. (A)

Winter Hill  
Scott, H. H. (M)

Worcester  
Godfrey, J. S. (A)  
Newell, H. H. (M)

## MICHIGAN

Ann Arbor  
Buhl, W. T. (A)  
Campbell, G. R. (A)  
Chapman, F. W. (S)  
Firestone, F. A. (A)

Gebhardt, P. B. (A)  
Holland, L. N. (M)  
Huang, S. (S)  
Kraus, J. D. (A)  
Morton, J. A. (A)  
Whitmer, R. M. (A)  
Williams, N. H. (A)  
Williamson, D. E. (A)  
Worel, F. (A)  
Wuerfel, R. P. (M)

Battle Creek  
Roof, R. B. (A)

Bay City  
Carpenter, R. H. (A)

Birmingham  
Stahl, T. H., Sr. (A)

Charlotte  
Gay, P. S. (A)  
Schultz, F. V. (A)

Dearborn  
Jinks, C. C. (A)  
Wiesner, J. B. (S)

Detroit  
Abfalter, H. F. (S)  
Adams, R. A. (A)  
Armer, A. A. (A)  
Bascom, E. R. (A)  
Bradley, F. W. (A)  
Buchanan, A. B. (M)  
Carter, G. W. (M)  
Chereton, A. B. (A)  
Clark, E. H. (A)  
Coates, A. L. (A)  
Courtis, R. P. (A)  
Davis, C. (A)  
Denstaedt, E. C. (M)  
Dudeck, P. H. (A)  
Dymond, C. W. (A)  
Eisen, C. G. (S)  
Firestone, S. (A)  
Fitzner, B. J. (A)  
Fratr, G. E. (S)  
Friedenthal, A. (A)  
Gates, H. A. (M)  
Grove, G. A. (A)  
Hart, A. D. (S)  
Hayes, E. A. (A)  
Hess, H. M. (A)  
Hoffman, W. R. (A)  
Kaserman, F. S. (A)  
Katz, L. (S)  
King, L. E. (S)  
Lebarre, S. D. (A)  
Lee, E. H. I. (M)  
Leist, L. G. (A)  
Lemieux, C. J. (A)  
Manning, S. R. (A)  
McLennan, M. A. (A)  
Osborne, R. L. (A)  
Outzen, A. N. (A)  
Putnam, E. T. (A)  
Roggenbuck, R. A. (S)  
Roush, F. H. (A)  
Russ, J. A. (A)  
Scanlan, R. J. (A)  
Schaefer, R. J. (A)  
Seielstad, H. D. (A)  
Shepley, L. (A)  
Shimkus, A. T. (S)  
Smeby, L. C. (A)  
Tomchuck, J. (A)  
Walter, H. (A)  
Werner, G. H. (A)  
Zatorsky, E. F. (A)

Ferndale  
Griva, E. J. (A)

Flint  
Fallain, F. D. (A)  
Neilson, N. S. (A)

Gaylord  
Shannon, C. E. (S)

Grand Rapids  
Davis, R. L. (A)

Hastings  
Branch, R. (A)

Highland Park  
Byerlay, H. LeR. (M)  
Gould, H. S. (A)  
Hubbard, W. B. (A)  
Stinson, R. C. (A)

Holland  
De Waard, R. (A)  
Tysse, H. L. (A)

Jackson  
Atkins, C. E. (A)  
Freeman, S., Jr. (A)  
Guyton, J. H. (A)  
Jelen, M. J. (A)  
Knubbe, H. H. (A)  
Morris, L. P. (A)  
Nielsen, H. V. (A)

Kalamazoo  
Fetzer, J. E. (M)  
Rector, E. W. (A)

Lansing  
McCormick, C. (A)  
Wells, L. V. (A)  
Willis, E. D. (A)

Lincoln Park  
Lawrence, S. C. (S)

Marquette  
Chudyk, A. B. (S)

Muskegon  
Fonger, C. I. (A)  
Garcia, S. C. (A)  
Hewitt, C. T. (A)  
Krivitzky, G. (A)

Oxford  
Capron, E. S. (A)

Port Huron  
Thrun, R. S. (J)

Royal Oak  
Albiston, A. W. (A)  
Frincke, P. O. (A)  
Leedy, C. E. (A)

Three Rivers  
Perkins, M. L. (A)

Wyandotte  
Clark, R. K. (A)  
Moore, J. B. (A)  
Workman, W. B. (A)

Ypsilanti  
Augustus, L. M. (A)

## MINNESOTA

Anoka  
Collier, G. X. M. (A)  
Sather, O. J. (S)

Baudette  
Gjelhaug, J. A. (A)

Duluth  
Cosandey, C. J. (A)  
Naslund, R. S. (A)  
Ross, R. H. (A)

Eveleth  
Lowell, P. (A)

Fergus Falls  
Haagenson, A. (A)

Minneapolis  
Boese, W. C. (S)  
Braun, C. M. (A)



Distad, M. (A)  
Findley, L. K. (S)  
Hartig, H. E. (A)  
Henrici, C. R. (S)  
Iversen, I. V. (A)  
Jacobsen, G. K. (A)  
Jenkins, A. F. (S)  
Knox, M. E. (A)  
McKnew, W. H. (A)  
Melloh, A. W. (A)  
Sigford, J. V. (S)  
Stillman, R. M. (S)  
Tymen, T. E. (A)  
Williams, E. C. (S)  
Young, S. B. (A)

Northfield  
Culver, C. A. (M)  
Jensen, M. O. (A)

Owatonna  
Hager, F. M., Jr. (S)

St. Paul  
Abramovich, M. N. (S)  
Carr, L. H. (A)  
Coil, N. B. (A)  
Edwards, H. W. (A)  
French, E. C. (A)  
Janes, C. W. (A)  
Seils, H. A. (A)  
Skifter, H. R. (M)

Waseca  
Johnson, E. F. (A)  
Olander, L. W. (A)  
Newhouse, A. B. (A)

Willmar  
Scott, H. M. (A)

# MISSISSIPPI

Greenwood  
Fausett, F. (M)  
Milborne, S. C. (A)

Hattiesburg  
Davidson, C. E. (A)

# MISSOURI

Cape Girardeau  
Hirsch, O. C. (A)

Independence  
Moler, A. R. (A)

Joplin  
Butterfield, H. G., Jr., (A)  
Stark, R. J. (A)

Kansas City  
Burns, C. P. (A)  
Cook, F. W. (A)  
Fouts, A. L. (A)  
Goldenberg, H. E. (A)  
Johnson, W. D. (A)  
Maitland, A. (A)  
Martin, K. H. (A)  
McCurdy, R. G. (A)  
McDonell, W. J. (A)  
Miller, W. (A)  
Morgan, H. K. (A)  
Schilling, J. T. (A)  
Sigmon, L. C. (A)  
Van Gundy, C. G. (A)  
Wilcox, J. V. (A)  
Wright, D. (A)

Milan  
Montgomery, B. E. (S)

Normandy  
Landwehr, I. H. (S)

North Kansas City  
Turner, C. G. (A)

Richmond  
Basham, R. (A)

Rolla  
Frame, F. H. (A)

St. Joseph  
Koch, J. W. (A)

St. Louis  
Alcorn, E. B. (A)  
Boskamp, J. B. (A)  
Cloyd, L. W. (A)  
Coe, R. L. (A)  
Cummings, G. M. (A)  
Dickman, K. W. (S)  
Emmerich, C. M. (A)  
Fillmore, F. A. (A)  
Forst, J. A. (A)  
Goodberlet, E. F. (A)  
Groetke, E. A. (A)  
Rekart, A. F. (A)  
Volk, J. A. (A)  
Wardell, W. L. C. (A)  
Zehr, N. J. (A)

Springfield  
Bauer, F. (A)  
Moss, T. L. (A)  
Ward, G. P. (A)

University City  
Glasgow, R. S. (M)  
Racen, F. (A)

Warrensburg  
Bondurant, J. E. (S)

# MONTANA

Anaconda  
Antonich, P. L. (A)  
Smith, D. E. (A)

Butte  
Sprague, B. R. (A)

Great Falls  
Edwards, R. B. (A)  
Parker, J. E. (A)

Miles City  
Bunn, C. F. (J)

Shelby  
Stimps, J. R. (A)

Tishomingo  
Markille, R. G. (S)

# NEBRASKA

Clay Center  
Price, M. A. (A)

Falls City  
Chesley, A. D. (A)

Grand Island  
Anderson, A. (A)  
Graham, H. U. (A)  
Jensen, G. L. (A)  
Renton, R. J. (A)  
Wolf, B. (M)

Kearney  
Beshore, P. S. (A)

Lincoln  
Dalton, B. J. (J)  
Harvey, H. C. (A)  
Jensen, J. C. (M)  
Kimberly, H. D. (A)  
Norris, F. W. (M)  
Winkler, C. W. (A)

McCook  
Coleman, H. E. (A)

North Platte  
Flebbe, W. E. (A)

Omaha  
Anderson, J. S. (A)  
Herold, I. L. (A)  
Kotera, W. J. (A)

Meile, J. W. (A)  
Myers, A. F. (A)  
Veverka, R. E. (A)  
Woolverton, R. B. (F)

Seward  
Young, K. A. (A)

# NEVADA

Beowawe  
Barton, C. G. (A)

Reno  
Greulich, R. A. (S)  
Sandorf, I. J. (A)

# NEW HAMPSHIRE

Gorham  
Dodge, J. B. (A)

Concord  
Evans, C. B. (A)

Exeter  
Bent, A. E. (A)

Hancock  
Weston, J. L. (A)

Manchester  
Rattigan, J. H. (A)  
Stauffer, R. W. (A)

Seabrook Beach  
Pickard, G. W. (F)

# NEW JERSEY

Asbury Park  
Rose, C. F. P. (A)

Atlantic City  
Flett, W. J. (A)  
Strockbine, J. (A)

Audubon  
Conklin, J. W. (A)  
Morton, G. A. (A)  
Pettengill, G. W. (A)  
Sanders, R. C., Jr. (S)  
Smalts, F. W. (A)  
Wolf, L. J. (A)

Bayonne  
Brady, J. S. (A)  
Mack, E. J. (A)

Belleville  
Olsen, E. U. (A)

Berlin  
Salati, O. M. (S)

Beverly  
Grimes, D. (M)

Bloomfield  
Burley, F. E. (A)  
Fuller, F. L. (A)  
Hamilton, H. G. (A)  
Hamvas, L. U. (A)  
Mitchell, C. D. (M)  
Moran, W. G. (A)  
Somers, B. A. (A)  
Upp, C. B. (A)

Bogota  
Montllor, J. A. (J)

Boonton  
Albert, W. H. (A)  
Ballantine, S. (F)  
Boesche, F. W. (A)  
Cook, L. (A)  
Cordell, P. C. (A)  
Drake, F. H. (M)  
Ferris, M. (M)  
Haas, J. G. (A)  
Hull, L. M. (F)  
Loughlin, W. D. (F)

# NEW JERSEY

- Redington, J. H. (A)  
Snow, H. A. (A)
- Bound Brook**  
Slezskinsky, G. N. (A)  
Stair, D. N. (A)
- Caldwell**  
Eberhard, L. E. (A)  
Hotopp, A. H., Jr. (M)
- Camden**  
Ackerman, M. J. (A)  
Adler, B. (A)  
Albrecht, H. D. (A)  
Anderson, P. A. (M)  
Artzt, M. (A)  
Batsel, M. C. (F)  
Boerner, T. J. (A)  
Braden, R. A. (A)  
Brail, S. L. (A)  
Brandt, M. M. (A)  
Carlson, W. L. (A)  
Clement, L. M. (F)  
Coroniti, S. C. (A)  
Creager, F. L. (A)  
Cummings, J. J. (A)  
Dickey, E. T. (M)  
Eaton, T. T. (A)  
Engel, F. H. (M)  
Engstrom, E. W. (A)  
Epstein, D. W. (A)  
Fredericks, J. E. (A)  
Friel, F. J., Jr. (A)  
Gerber, P. D. (A)  
Gibbs, W. D. (A)  
Goodling, G. G., Jr. (A)  
Gubin, S. (A)  
Hargrave, W. A. (A)  
Harrower, J. C. (A)  
Hoch, A. L. (A)  
Jones, E. T. (M)  
Jones, L. F. (A)  
Joyner, A. A. (A)  
Karns, M. E. (A)  
Koch, W. R. (A)  
Landon, V. D. (M)  
Levine, I. B. (M)  
Lyndon, W. L. (A)  
Maloff, I. G. (F)  
Massa, F. (A)  
Orr, R. W. (A)  
Osborn, P. H. (A)  
Phillips, L. B. (A)  
Pollack, D. (S)  
Reeber, H. E. (A)  
Rettenmeyer, F. X. (M)  
Schaevitz, H. (S)  
Schrader, H. J. (A)  
Selby, E. O. (A)  
Slaybaugh, C. W. (S)  
Sussman, H. (A)  
Tolson, W. A. (M)  
Van Dyke, W. D. (A)  
Wendt, K. R. (A)  
Wolff, I. (A)  
Young, C. J. (A)  
Zworykin, V. K. (M)
- Cedar Grove**  
Holborn, F. (M)  
Nuner, J. F., Jr. (A)
- Chatham**  
Kuthe, H. K. (A)  
Peterson, A. C., Jr. (A)  
Tyson, B. F. (S)  
Wing, A. K., Jr. (A)
- Collingswood**  
Barton, L. E. (M)  
Bedford, A. V. (A)  
Beers, G. L. (M)  
Clark, E. L. (A)  
Cochran, S. W. (A)  
Curtiss, A. N. (A)  
Davis, R. J. (A)  
Gihring, H. E. (A)
- Gluyas, T. M., Jr. (S)  
Hollahan, W. E. (A)  
Kentner, C. D. (A)  
Kozanowski, H. N. (A)  
Lindner, H. G. (A)  
Peterson, D. W. (S)  
Poch, W. J. (A)  
Potter, E. H. (A)  
Pratt, D. (A)  
Richards, H. J. (A)  
Turner, A. H. (A)  
Walter, J. C. (M)  
Waterman, W. (A)  
Weible, N. R. (A)
- Cranford**  
Buzalski, T. J. (A)  
Fulmer, J. W. (A)  
Laube, H. W. (A)  
Pulley, L. A. (A)
- Deal**  
Dale, G. V. (A)  
Decino, A. (A)  
Eberhardt, G. M. (A)  
Ferrell, E. B. (M)  
Friis, R. W. (A)  
Goodall, W. M. (A)  
Hunt, L. E. (M)  
Kerwien, A. E., Jr. (A)  
Kircher, R. J. (A)  
Schelleng, J. C. (F)  
Schlaack, N. F. (A)  
Shaw, R. C. (A)  
Sowers, N. E. (A)  
Sterba, E. J. (A)
- East Orange**  
Bemis, I. S. (A)  
Borgeson, C. A. (A)  
Butt, H. R. (A)  
Curtis, R. C. (A)  
Duncan, R. D., Jr. (M)  
Gawler, H. C. (M)  
Grant, H. A., Jr. (A)  
Haef, A. V. (A)  
Hensel, W. G. (A)  
Hiller, H. E. (A)  
MacAlpine, W. W. (A)  
Miller, G. A. (A)  
Pearce, C. J. (A)  
Peet, E. C. (A)  
Pickard, R. W. (A)  
Spencer, M. C. (A)  
Truell, R. (A)  
Woehling, J. G. (A)
- Elberon**  
Watson, P. E. (A)
- Elizabeth**  
Bolton, S. W. (A)  
Brick, F. R., Jr. (M)  
Cohen, S. (M)  
Engel, A. L. (A)  
Feindel, A. (A)  
Harkins, P. B. (A)
- Englewood**  
Amend, A., Jr. (S)  
Fink, D. G. (A)  
McConnel, W. G. (A)
- Erlton**  
Noble, H. V. (M)  
Smith, J. P. (A)
- Essex Fells**  
Wickersheim, L. W. (A)
- Fanwood**  
Todd, H. C. (A)
- Gillette**  
Morse, J. E. (A)
- Glassboro**  
Snyder, R. L. (A)
- Glen Ridge**  
Dart, H. F. (M)
- Deal, H. B. (M)  
Kelley, E. K. (A)  
Potter, C. R. (A)  
Stanton, S. W. (A)
- Glen Rock**  
Clark, L. E. (A)
- Great Notch**  
Budelman, F. T. (A)
- Guttenberg**  
Pramshefer, T. W. (A)
- Grantwood**  
Eichorn, C. W. (S)
- Haddonfield**  
Baker, I. R. (M)  
Blodgett, E. D. (A)  
Brokaw, C. A. (A)  
Brown, G. H. (A)  
Burrill, C. M. (M)  
Chittick, K. A. (A)  
Coleman, J. B. (M)  
Conron, W. H. (A)  
Cummings, B. R. (M)  
Diehl, W. F. (F)  
Fernsler, G. L. (A)  
Flaherty, M. (A)  
Haydock, J. G., Jr. (A)  
Holmes, R. S. (A)  
Kell, R. D. (A)  
LaPort, E. A. (M)  
Murray, A. F. (M)  
Newton, H. D. (A)  
Rochford, J. P. (M)  
Sadenwater, H. (M)  
Serrell, R. (A)  
Smith, L. C. (A)  
Sutherland, E. F. (A)  
Terrell, J. A. (A)  
Thomas, G. G. (A)  
Tilden, M. W. (A)  
Touant, V. E. (A)  
Tucker, W. E. (A)
- Haddon Heights**  
Allen, H. E. (M)  
Graham, M. L. (A)  
Oman, N. J. (A)  
Roys, H. E. (A)  
Scheldorf, R. D. (A)  
Smith, J. C. (A)  
Stocker, A. C. (A)  
Stone, F. B. (A)
- Harrison**  
Ayer, R. B. (A)  
Borden, C. C. (A)  
Burnap, R. S. (A)  
Brunet, M. (M)  
Burnett, C. E. (A)  
Burnside, D. G. (A)  
Carroll, M. J. (A)  
Clark, T. H. (A)  
De Vore, H. B. (A)  
Ferris, W. R. (M)  
Gibbons, D. R. (A)  
Haller, C. E. (A)  
Hampshire, R. A. (A)  
Hansen, R. K. (A)  
Harris, W. A. (A)  
Headrick, L. B. (A)  
Henry, T. J. (A)  
Herold, E. W. (A)  
Hirlinger, A. J. F. (A)  
Iams, H. A. (A)  
James, W. M. (A)  
Johnson, H. W. (A)  
Jones, M. C. (A)  
Judd, F. V. H. (A)  
Kauzmann, A. F. (A)  
Kilgore, G. R. (A)  
Law, R. R. (A)  
Lederer, E. A. (M)  
Miller, J. M. (F)  
Nergaard, L. S. (A)  
Nesslage, C. F. (A)

- North, D. O. (A)  
Orth, R. T. (A)  
Perkins, T. B. (A)  
Ritter, E. W. (M)  
Rose, A. (A)  
Rose, G. M., Jr. (A)  
Salzberg, B. (A)  
Schafer, E. W. (A)  
Schooley, A. H. (A)  
Shackelford, B. E. (M)  
Shrader, T. M. (M)  
Stinchfield, J. M. (A)  
Swedlund, L. E. (A)  
Thompson, B. J. (M)  
Townsend, F. W. (A)  
Wagner, W. G. (A)  
Wagner, H. M. (A)  
Warner, J. C. (F)  
Widell, E. G. (M)  
Zottu, P. D. (A)
- Hightstown**  
Chasin, G. (A)  
Rapp, W. F., Jr. (J)
- Hillside**  
Winslow, T. P. (A)
- Hoboken**  
Hazelton, A. (F)  
McAdie, C. H. (S)  
Roters, H. C. (A)  
Stempel, W. M. (A)
- Interlaken**  
Burrows, C. R. (A)
- Irrington**  
Knochel, W. J. (A)  
Momm, E. J. (A)
- Jersey City**  
Bacon, C. W. (S)  
Benin, Z. (A)  
Bernard, J. L., Jr. (A)  
Blanc, V. (A)  
Boyajeau, J. A., Jr. (S)  
Bremer, H. A. (A)  
Perkins, G. C. (A)  
Samuelson, C. D. (A)  
Swensen, J., Jr. (A)
- Kearny**  
Taylor, T. (A)
- Lakewood**  
Bartolf, H. P. (A)
- Lawrenceville**  
Dayton, B. L. (A)  
Wright, O. (A)
- Leonia**  
Graf, C. A. (A)  
Hoth, D. F. (S)
- Lincoln Park**  
Nordstrom, B. H. (A)
- Little Falls**  
Farnsworth, D. W., (A)
- Little Silver**  
Lowry, L. R. (A)  
Ohl, R. S. (M)
- Livingston**  
Bareiss, M. (M)  
Ports, E. G. (M)
- Long Branch**  
Cooper, W. H. (A)  
Goodwin, E. A. (A)  
Harris, H. (A)
- Madison**  
Caughey, W. K. (A)  
de Coutouly, G. C. (A)  
Felch, E. P. (A)  
Manning, C. T. (M)  
Phelps, W. A. (A)
- Magnolia**  
Banca, M. C. (A)
- Manasquan**  
Skirrow, J. F. (M)
- Maplewood**  
Burns, G. K. (A)  
Cunningham, F. W. (M)  
Darrow, L. H. (A)  
Kline, F. S. (A)  
Pidgeon, H. A. (M)  
Wilder, M. P. (A)
- Matawan**  
Leach, H. B. (A)
- Merchantville**  
Castor, A. H. (A)  
Craig, P. M. (A)  
Douthit, MacL. L. (A)  
Eiselein, J. E. (A)  
Fitzsimons, F. (A)  
Harris, F. M. (A)  
Hauck, V. D. (A)  
Hopkins, A. R. (M)  
McKechnie, J. S. (A)  
More, C. C. (A)  
Paschon, H. E. (A)  
Patterson, E. B. (M)  
Petry, G. F. (A)  
Roe, J. H. (A)  
Sims, W. H., Jr. (A)  
Thompson, L. E. (A)  
Trafton, D. C. (A)
- Millburn**  
Janda, H. A. (S)  
Morris, R. M. (A)
- Montclair**  
Carson, W. G. (A)  
Charton, P. W. (A)  
Coon, C. E. (A)  
de Long, O. A., Jr. (A)  
Hinck, A. J., Jr. (A)  
Mouromtseff, I. E. (A)  
Sprague, V. G. (A)
- Moorestown**  
Ballentine, E. C. (M)
- Morristown**  
Foster, D. E. (M)  
Leoser, T. S. (M)  
Morrison, H. (A)
- Mountain Lakes**  
Osterland, E. H. (A)  
Parkes, A. W., Jr. (A)  
Wheeler, C. M. (A)  
Wilson, J. R. (M)
- Mountain View**  
Tiffany, J. M. (A)
- Mount Ephraim**  
McKinney, R. S. (A)
- Netcong**  
Reichard, W. C. (A)
- Newark**  
Backer, L. A. (A)  
Brettell, G. A., Jr. (S)  
Browning, S. D. (A)  
Byrne, P. F. (A)  
Chun, H. H. (A)  
Crosby, R. (A)  
Eells, M. M. (A)  
Erstad, J. (A)  
Glauber, J. J. (A)  
Goodwin, W. N., Jr. (M)  
Hardwick, A. H. (M)  
Hooven, M. D. (A)  
Kandoian, A. G. (A)  
Lamb, F. X. (A)  
March, P. S. (A)  
Merrill, H. M. (A)  
Miller, J. H. (M)  
Morelock, O. J., Jr. (A)
- Peters, J. L. (A)**  
Romander, H. (A)  
Royden, G. T. (F)  
Smith, H. J. (A)  
Vogel, C. F. (A)
- New Brunswick**  
Kahn, L. (A)  
Kennedy, E. D. (A)
- North Arlington**  
Johnson, H. C. (A)  
Meier, W. L. (A)  
Sumpter, P. B. (A)
- North Bergen**  
Campbell, A. G. (A)
- Nutley**  
Barlow, W. A. (S)  
Curtis, L. B. (A)
- Oakhurst**  
Schafer, J. P. (M)
- Oaklyn**  
Banks, C. R. (A)  
Boswell, J. R. (A)  
Dyson, H. R. (A)  
Flodman, L. J. (A)  
Flory, L. E. (A)  
Fowler, L. T. (A)  
Gleason, H. H. (M)  
Harvey, R. L. (A)  
Priebe, F. K. (A)  
Short, D. W. (A)  
Teaf, J. H. (A)
- Oceanport**  
Cole, R. I. (A)  
Hessel, J. (A)  
Inslerman, H. E. (A)  
Murphy, W. H. (M)  
Noyes, R. H. (A)
- Oradell**  
Brackett, H. H. (A)
- Orange**  
Dunning, O. M. (A)  
Jacobus, H. R. (A)
- Palisade**  
Doersam, P. D. (S)  
Marsden, B. (A)
- Passaic**  
Berger, H. C. (A)  
Post, G. W. (A)
- Paterson**  
Bleil, F. J. (A)
- Penns Grove**  
Douglass, W. A. (A)
- Pitman**  
Hoffman, W. H. (A)
- Plainfield**  
Boise, E. B. (A)  
Cumming, K. N. (M)  
Hagmann, N. (A)  
Siegelin, C. O. (A)  
Thompson, E. H. (S)  
Walz, R. F. (A)  
Whelan, D. O. (M)
- Pompton Plains**  
Mayberry, R. J. (A)
- Princeton**  
Cooper, J. C., Jr. (A)  
Roberts, W. VanB. (F)
- Rahway**  
Gibson, R. D. (A)
- Red Bank**  
Beck, A. C. (A)  
Bruce, E. (M)  
Crawford, A. B. (A)  
England, C. R. (F)  
Feldman, C. B. (A)



## NEW JERSEY

- Hollywood, J. M. (A)  
Jansky, K. G. (M)  
King, A. P. (A)  
Mumford, W. W. (A)  
Pierce, N. J. (A)  
Ring, D. H. (A)  
Sharpless, W. M. (A)  
Southworth, G. C. (M)
- Ridgefield Park**  
Koechel, W. P. (A)  
Smith, A. E. (A)
- Ridgewood**  
Bondy, H. A. (A)  
Cahill, W. J. (A)  
Replogle, D. E. (M)  
Smith, T. A. (A)
- River Edge**  
Ennis, F. T. (A)
- Riverton**  
Beegle, D. H. (S)  
Little, D. S. (A)
- Roselle**  
Peterson, J. N. (A)
- Roselle Park**  
McNicol, D. (F)
- Rumson**  
Friis, H. T. (F)
- Runnemede**  
Demmer, A. H. (A)
- Rutherford**  
Bailey, W. F. (A)  
Gage, D. H. (M)  
Handler, H. (S)  
Kannenber, W. F. (A)  
Schwerin, P. (M)  
Watson, H. B. (A)
- Salem**  
McCloskey, J. D. (J)  
Morton, R. S. (A)
- Somerdale**  
Morgan, J. M. (A)
- South Orange**  
Curtis, A. M. (M)  
Field, W. T. (A)  
Miller, H. J. (M)  
Stanwick, C. A. (A)
- South Plainfield**  
Bailey, W. M. (M)
- Summit**  
Lamb, J. M. (A)  
Richards, P. A. (A)  
Rockwood, G. H., Jr. (A)  
Schmit, D. F. (A)
- Teaneck**  
O'Brien, W. J. (A)  
Shelby, R. E. (M)
- Tuckerton**  
Munzer, L. F. (A)  
Thropp, C. H. (A)
- Union**  
Edwards, J. B. (A)
- Union City**  
Braun, H. C. (S)  
Zweifel, F. A. (S)
- Upper Montclair**  
Du Mont, A. B. (F)  
Godley, P. F. (A)  
Hitchcock, R. C. (M)
- Verona**  
Butler, H. R. (A)  
Morrison, G. K. (A)  
Perkins, W. M. (M)  
Spitzer, E. E. (A)
- West Caldwell**  
Willis, F. C. (A)
- West Collingswood**  
Henderson, R. A. (A)  
Perry, S. V. (A)
- Westfield**  
Greis, W. K. (A)  
Hanson, F. E. (A)
- Westmont**  
Anderson, L. J. (A)  
Bainbridge, A. S. (A)  
Fredendall, G. L. (A)  
Gottier, T. L. (A)  
Grundmann, G. L. (A)  
Hubbard, B. L. (A)  
Pulley, A. A. (A)  
Trainer, M. A. (A)
- West New York**  
Thomas, W. E. (A)
- West Orange**  
Bain, J. C. (A)  
Edison, T. M. (A)  
Kispaugh, A. W. (M)  
Martin, DeL. K. (M)  
Olesen, H. L. (M)  
Shangraw, C. C. (M)
- Westville**  
Demuth, G. W. (A)
- Westwood**  
Otto, E. D. (A)
- Whippany**  
Doherty, W. H. (M)  
Goss, F. A. (A)  
Kuzela, E. V. (A)  
Olmstead, N. C. (A)  
Robinson, A. L. (A)  
Smith, P. H. (A)
- Woodbridge**  
Weiner, M. J. (A)
- ### NEW MEXICO
- Albuquerque**  
Mallory, R. R. (S)
- Santa Fe**  
Remley, H. L. (A)
- Tucumcari**  
Martin, J. L. (A)
- ### NEW YORK
- Albany**  
Marsh, P. F. (A)  
Mingins, C. R. (A)  
Smith, H. E. (A)  
Snyder, N. (M)  
Wolberg, L. (A)
- Annandale-on-Hudson**  
Hughes, H. K. (A)
- Baldwin, L.I.**  
Egolf, R. S. (A)  
Fortin, P. R. (A)
- Batavia**  
Nodine, W. I. (A)
- Beacon**  
Ritchie, A. V. (A)
- Bellerose, L.I.**  
Peterman, W. G. (A)  
Speicher, J. D. (A)
- Bellmore, L.I.**  
Glaser, E. M. (A)
- Binghamton**  
Gilbert, L. H. (A)  
Nichols, H. J. (A)
- Brighton**  
Balling, A. W. (A)  
Esten, P. W. (A)
- Bronxville**  
Elliott, D. A. (A)  
Hendricks, P. S. (A)  
Lord, R. (A)  
Weinberger, J. (F)
- Buffalo**  
Andriatch, N. D. (A)  
Bennett, P. A. (A)  
Bruch, R. (A)  
Burbank, J. (A)  
Crom, G. C., Jr. (M)  
Croysdill, W. T. (A)  
Cutting, F. (F)  
Gaspárovitch, S. (A)  
Giovannini, F. (A)  
Hector, L. G. (A)  
Hoffman, K. B. (A)  
Huber, C. W. (A)  
Johnson, J. A. (A)  
Kingsley, R. J. (A)  
Koontz, K. K. (A)  
Korts, H. G. (A)  
Neelon, W. J. (A)  
Pacholke, F. (A)  
Roy, E. H. (A)  
Schmidt, F. W., Jr. (A)  
Seeman, W. F. (A)  
Smith, F. J. (A)  
Taylor, J. L. (A)  
Telaak, T. J. (A)  
Waud, E. C. (A)
- Canandaigua**  
Goering, R. A. (A)  
Thompson, J. M. (A)
- Canton**  
Priest, W. C. (A)
- Cedarhurst, L.I.**  
Mercier, A. E. (A)
- Clarendon**  
Allis, B. A. (A)
- Coldwater**  
O'Brien, J. C. (A)
- Congers**  
Christman, C. J. (A)
- Corning**  
Guyer, E. M. (A)  
Taubert, W. H. (A)
- Delmar**  
Denny, W. B. (S)
- East Aurora**  
Andrews, R. W. (A)
- Eggertsville**  
Forbes, H. C. (M)
- Endwell**  
Tholstrup, H. (A)
- Floral Park, L.I.**  
Densham, R. S. (A)
- Freeport, L.I.**  
Barone, S. A. (A)  
Thompson, R. G. (A)  
Wardlow, C. A. (A)
- Garden City, L.I.**  
Dunn, L. J. (M)  
Henny, K. (M)  
White, R. F. (A)
- Garrison**  
Gordon, M. K., Jr. (A)
- Grahamsville**  
Condren, J. M., Jr. (S)  
Gillette, K. G. (A)

**Great Neck, L.I.**

Lewis, H. M. (M)  
Wheeler, H. A. (F)

**Greenport, L.I.**

Boerum, H. S. (A)  
Wood, R. H. (A)

**Hartsdale**

Engelhardt, G. B. (A)  
Smith, S. B. (M)

**Hempstead, L.I.**

Akre, R. O. (A)  
Pell, W. F., Jr. (A)  
Pfautz, C. E. (A)

**Hempstead Gardens, L.I.**

Westman, H. P. (M)

**Hicksville, L.I.**

Zurian, P. D. (A)

**Hurley**

Kent, G. C. (A)

**Ithaca**

Atwood, J. B. (A)  
Moeder, W. D. (A)  
Smith, H. G. (A)  
Sohon, H. (A)  
Webb, J. S. (A)

**Kenmore**

Cameron, J. A. (A)  
Noel, L. S. (A)  
Schultz, A. F. (A)  
Smith, G. G. (A)  
Tittle, H. C. (A)  
Winfield, W. S. (A)

**Larchmont**

Blasi, E. A. (A)  
Nilson, A. R. (M)

**Laurelton, L.I.**

Glaser, M. (A)  
Lurie, E. M. (A)

**Leroy**

Lapp, R. S. (A)

**Lockport**

Connette, T. W. (A)  
Fiedler, L. (A)

**Lynbrook, L.I.**

Fedotoff, N. V. (A)  
Kayser, H. (A)  
Maresca, J. F. (A)

**Macedon**

Thistlethwaite, W. G. (A)

**Malverne, L.I.**

Callahan, J. L. (M)

**Manhasset, L.I.**

Cawein, M. (M)

**Massapequa, L.I.**

Baunach, E. L. (A)

**Medina**

Stanko, E. (A)

**Middletown**

Callender, E. R. (A)

**Mineola, L.I.**

Phillipps, R. J. (A)

**Monsey**

Muller, F. (M)

**Mount Vernon**

Dorschug, H. A. (A)  
Ferres, A. M. (A)  
Gati, B. (A)  
Kahn, E. C. (A)  
Mullen, W. C. (A)  
Podell, S. (A)  
Stone, C. G., Jr. (A)  
Stromeyer, C. F. (A)

**New City**

Doellner, LeR. J. (A)

**New Rochelle**

Felix, E. H. (M)  
Kelly, C. M., Jr. (A)

**New York**

(Includes Bronx and Manhattan. For New York City see also Brooklyn, Queens, and Staten Island which follow.)

Adams, I. J. (M)  
Adamson, A. A. (S)  
Affel, H. A. (A)  
Alexander, L. (A)  
Amy, E. V. (M)  
Anderson, C. N. (F)  
Anderson, H. L. (S)  
Ansley, A. C. (A)  
Appel, H. W. (A)  
Armstrong, E. H. (F)  
Arnold, J. W. (A)  
Arnsen, L. (M)  
Ashby, A. L. (A)  
Atkin, R. (A)  
Atwood, S. (A)  
Aull, W., Jr. (M)  
Ayer, O. G. (A)  
Babcock, S. M. (A)  
Bagnall, V. B. (A)  
Bailey, A. (F)  
Bailey, A. B. (A)  
Bair, R. S. (M)  
Balsley, J. R. (A)  
Barkley, W. J. (M)  
Barlow, D. S. (A)  
Batcheller, A. (M)  
Batchelor, J. C. (A)  
Beal, R. R. (A)  
Beins, J. K. (A)  
Berhalter, J. J. (A)  
Betts, P. H. (A)  
Beverage, H. H. (F)  
Biber, L. R. (A)  
Binns, J. R. (A)  
Black, D. M. (A)  
Black, K. C. (M)  
Black, W. L. (A)  
Blackmar, A. E., Jr. (A)  
Blackwell, O. B. (F)  
Block, W. S., Jr. (A)  
Boehme, H. O. (M)  
Boghosian, W. H. (S)  
Bomberger, D. C. (S)  
Borst, J. M. (A)  
Bose, J. H. (A)  
Bostwick, L. G. (A)  
Bown, R. (F)  
Boymel, B. (A)  
Brenner, B. (A)  
Brooks, T. A. (A)  
Brown, D. S. (A)  
Brown, W. A. R. (A)  
Bruggeman, J. T. (A)  
Brunn, R. B. (A)  
Budenbom, H. T. (A)  
Bullard, W. R. (A)  
Burghard, G. E. (M)  
Burton, E. T. (A)  
Busch, W. R. (A)  
Buttner, H. H. (M)  
Byrnes, I. F. (A)  
Caldwell, O. H. (M)  
Campbell, C. H. (A)  
Campbell, R. D. (A)  
Capen, W. H. (M)  
Carlebach, W. M. (A)  
Carlton, R. C. (A)  
Carson, J. R. (M)  
Case, H. M. (A)  
Case, N. P. (M)  
Cassell, J. L. (A)  
Chaffee, J. G. (A)  
Chamberlain, A. B. (M)  
Chipp, R. D. (A)  
Christides, S. C. (A)  
Chu, O. Y. (A)  
Coggeshall, I. S. (M)  
Cohan, E. K. (M)  
Cohn, H. (M)  
Coles, F. A. (A)  
Colpitts, E. H. (F)  
Cousins, V. M. (A)  
Cowan, F. A. (M)  
Crawford, J. D. (A)  
Crews, F. H. (A)  
Crosby, G. L. (M)  
Custer, C. J. (A)  
Deakin, G. (A)  
Dean, C. E. (M)  
de Friesse, F. C. (A)  
Demarest, C. S. (M)  
Desnoes, A. B. (A)  
Diehl, C. W., Jr. (A)  
Dietrich, F. (A)  
Dietsch, C. G. (A)  
Dietze, E. (A)  
Dinsdale, A. (M)  
Donald, D. D. (A)  
Donovan, W. E. (A)  
Downing, H. L. (A)  
Dubilier, W. (F)  
Dudley, B. (A)  
Dudley, H. W. (M)  
Duncan, R. S. (A)  
Dunlap, O. E., Jr. (M)  
Dunn, G. (F)  
Dunning, J. R. (A)  
Durkee, L. (A)  
Duttera, W. S. (A)  
Dyer, J. N. (A)  
Eaves, A. J. (M)  
Ekstrom, E. J. (A)  
Elmendorf, C. H. (S)  
Engel, G. C. (A)  
Espenschied, L. (F)  
Evans, H. W. (S)  
Everett, L. C. (M)  
Facey, J. W. (A)  
Farrand, C. L. (F)  
Fay, C. E. (A)  
Filmer, W. L. (A)  
Finch, W. G. H. (M)  
Fischer, H. B. (A)  
Fischer, L. O. (A)  
Fitch, W. A. (A)  
Flomenbaum, H. (A)  
Fossati, L. R. (A)  
Frank, E. W. (A)  
Fredendall, B. F. (A)  
Freeman, R. H. (A)  
Gannett, D. K. (M)  
Gay, J. E. (A)  
Geoghegan, E. D. A. (A)  
Gerstein, M. G. (A)  
Ghirardi, A. A. (M)  
Giannini, G. M. (A)  
Gilbert, J. J. (A)  
Gilman, G. W. (A)  
Glass, M. S. (A)  
Goldmark, P. C. (A)  
Goldsmith, A. N. (F)  
Graham, F. H. (A)  
Green, C. B. (A)  
Green, E. I. (M)  
Greengard, J. E., Jr. (A)  
Greenstein, P. (A)  
Griffiths, C. M. (A)  
Groselclose, S. K. (A)  
Grosselfinger, W. H. (A)  
Grover, H. G. (M)  
Gruetzke, C. P. (A)  
Grumman, F. W. (A)  
Guild, B. (M)  
Gutshall, R. W. (A)  
Guy, R. F. (M)  
Halligan, C. W. (A)  
Hammerich, H. A. (A)  
Hanley, J. F. (A)  
Harley, J. B. (A)  
Harnett, D. E. (M)  
Harrison, P. W. (A)

Harry, W. R. (S)  
 Hart, H. C. (A)  
 Hartley, R. V. L. (F)  
 Hartman, C. D. (A)  
 Hatfield, L. N. (A)  
 Heberlein, A. A. (A)  
 Hedburg, C. A. (S)  
 Hefe, J. R. (A)  
 Heins, J. L. (A)  
 Heising, R. A. (F)  
 Hemberger, E. F., Jr. (A)  
 Herber, J. C. (A)  
 Hight, S. C. (A)  
 Hiller, N. H. Jr. (A)  
 Hintz, R. T. (A)  
 Hodges, A. R. (A)  
 Hogan, J. V. L. (F)  
 Hopfenberg, J. A. (A)  
 Horle, L. C. F. (F)  
 Horn, C. W. (F)  
 Horne, C. F., Jr. (A)  
 Hornung, J. L. (M)  
 Houck, H. W. (M)  
 Hovgaard, O. M. (M)  
 Howe, W. C. (A)  
 Howell, C. A. (A)  
 Hubball, W. J. (M)  
 Hubbard, F. A. (A)  
 Huchberger, A. P. (A)  
 Hudack, J. M. (A)  
 Hutcheson, G. C. (A)  
 Ingram, S. B. (A)  
 Isele, H. A. (A)  
 Israel, D. D. (M)  
 James, V. N. (A)  
 Janke, H. A. (M)  
 Jean, R. P. (A)  
 Jensen, A. G. (M)  
 Jewett, F. B. (F)  
 Johnson, E. S. (A)  
 Johnson, E. O. (A)  
 Johnstone, W. M. (A)  
 Jolliffe, C. B. (F)  
 Kalb, R. M. (A)  
 Kalv, P. D. (A)  
 Kammerer, F. W. (A)  
 Keller, A. C. (A)  
 Kelly, M. J. (M)  
 Kennedy, W. A. (A)  
 Kimball, C. N. (A)  
 King, K. L. (A)  
 Kleinkauf, J. D. (A)  
 Klinke, H. O. (A)  
 Knapp, I. F. (A)  
 Knoop, W. A. (A)  
 Koerner, L. F. (A)  
 Kohler, H. W. (A)  
 Kolster, F. A. (F)  
 Korper, G. W., Jr. (A)  
 Kranz, F. W. (A)  
 Kreuzer, B. (A)  
 Krauth, E. A. (A)  
 Kuhn, A. S. (A)  
 Kunc, F. (A)  
 Kunins, M. K. (A)  
 Lack, F. R. (A)  
 Ladner, H. (A)  
 Lakatos, E. (A)  
 Lane, F. A. (A)  
 Langdon, G. G. (A)  
 Langley, R. H. (F)  
 Lawrence, W. L. (A)  
 Lawsine, L. A.  
 Lebel, C. J. (A)  
 Lenigan, T. E. (A)  
 Lent, W. C. (M)  
 Leslie, F. (A)  
 Levin, S. A. (A)  
 Levy, A. K. (A)  
 Levy, L. (A)  
 Lewis, E. H. (A)  
 Lewis, G. H. (M)  
 Lindsay, M. H. A. (A)  
 Llewellyn, F. B. (A)  
 Lodge, W. B. (A)  
 Logan, M. A. (A)  
 Long, M. B. (A)

Looney, H. C. (A)  
 Loughren, A. V. (M)  
 Loynes, O. H. (A)  
 Lynch, A. H. (M)  
 MacDonald, W. A. (M)  
 Mamarchev, D. A. (A)  
 Manley, E. (A)  
 Marrison, W. A. (M)  
 Marshall, R. W. (S)  
 Martin, H. B. (A)  
 Marx, F. L. (A)  
 Mason, W. P. (A)  
 Mathes, R. E. (A)  
 Mayer, E. E. (F)  
 McCann, T. A., 3rd (A)  
 McCutchen, B. S. (F)  
 McElrath, G. (M)  
 McGirr, W. P. (A)  
 McIntosh, F. H. (M)  
 McLagan, D. R. (A)  
 McMaster, L. L., Jr. (A)  
 McNally, J. O. (A)  
 McSweeney, R. (A)  
 Mendenhall, H. E. (A)  
 Meyer, H. W. (A)  
 Mezger, G. (A)  
 Milinowski, A. S., Jr. (A)  
 Miller, D. H. (A)  
 Miller, R. A. (A)  
 Mills, J. (F)  
 Milnor, J. W. (M)  
 Misenerheimer, H. N. (M)  
 Mitchell, I. A. (A)  
 Morrison, J. F. (M)  
 Muller, J. H. (A)  
 Nakamura, T. (M)  
 Nekut, A. G. (J)  
 Nelson, E. L. (M)  
 Nimmcke, F. E. (A)  
 Neville, T. P. (A)  
 Newhouse, R. C. (A)  
 Nicely, R. N. (A)  
 Nicholides, E. C. (A)  
 Nichols, L. C. (A)  
 Nickerson, F. W. (A)  
 Nielsen, J. E. (A)  
 Nisley, F. H. (A)  
 Nordahl, J. G. (A)  
 Norton, F. R. (A)  
 O'Donohue, J. P. (A)  
 Osborne, H. S. (M)  
 Ostrolenk, S. (A)  
 Oswald, A. A. (F)  
 Overmiller, C. M. (A)  
 Pacent, L. G. (F)  
 Padrusch, J. J. (J)  
 Pannill, C. J. (F)  
 Parker, C. V. (S)  
 Parker, O. B. (M)  
 Parker, R. D. (A)  
 Paterno, G. E. (A)  
 Pavlow, N. (A)  
 Pease, R. M. (M)  
 Pegram, G. B. (A)  
 Penick, D. B. (A)  
 Peterson, E. (M)  
 Peterson, L. C. (A)  
 Pfeffer, N. (A)  
 Phelan, T. H. (A)  
 Pierce, J. R. (S)  
 Pierrepont, J. J. (A)  
 Piety, R. G. (A)  
 Polkinghorn, F. A. (A)  
 Poole, R. E. (M)  
 Poppele, J. R. (A)  
 Porter, B. H. (A)  
 Potter, R. K. (M)  
 Potts, J. H. (A)  
 Pratt, H. (F)  
 Price, H. S. (M)  
 Purcell, R. H. (A)  
 Ransom, G. B. (A)  
 Rau, D. S. (A)  
 Reid, R. J. (A)  
 Reiling, P. A. (A)  
 Reoch, A. E. (F)  
 Reynolds, J. L. (A)

Riddle, E. R. (A)  
 Rider, J. F. (A)  
 Ridgway, J. L. (A)  
 Riesenkonig, H. (A)  
 Robbins, L. R. (M)  
 Rose, A. F. (M)  
 Rossi, R. J. T. (A)  
 Rumpel, C. H. (A)  
 Russell, J. B., Jr. (A)  
 Ryan, F. M. (M)  
 Salzberg, A. (A)  
 Sampson, H. E. (A)  
 Samuel, A. L. (A)  
 Sargeant, C. E. (A)  
 Sarnoff, D. (F)  
 Saunders, H. M. (A)  
 Schechter, J. (A)  
 Schenke, K. P. (A)  
 Schlicher, K. G. (A)  
 Schmied, J. W. (A)  
 Schneider, R. E. (A)  
 Schneider, W. A. (M)  
 Schnoll, N. (A)  
 Scholz, C. E. (M)  
 Schottland, F. D. (A)  
 Schuetz, R. F. (M)  
 Secombe, W. T. (A)  
 Secor, H. W. (A)  
 Seger, L. (A)  
 Seibert, J. L. (A)  
 Senauke, A. (M)  
 Shackleton, S. P. (M)  
 Shannon, J. H. (M)  
 Sharp, W. O. (A)  
 Sherman, J. B. (A)  
 Shore, H. (M)  
 Shute, E. R. (M)  
 Sievers, E. S. (A)  
 Silberstein, R. (A)  
 Simon, E. J. (F)  
 Simon, W. C. (M)  
 Slade, B. (A)  
 Slater, F. L. (A)  
 Smack, J. C. (A)  
 Smith, A. Z. (A)  
 Smith, G. L. (A)  
 Smith, J. W. (A)  
 Smith, K. D. (A)  
 Smith, M. T. (M)  
 Snow, W. B. (A)  
 Sonkin, D. (M)  
 Speed, R. B. (A)  
 Spence, P. W. (A)  
 Sprague, C. A. (M)  
 Stansel, F. R. (M)  
 Stone, E. W. (F)  
 Strieby, M. E. (M)  
 Swain, R. R. (A)  
 Sweeney, C. P. (A)  
 Synnot, B. (A)  
 Talme, P. (A)  
 Taussig, C. W. (A)  
 Taylor, C. H. (F)  
 Taylor, E. R. (A)  
 Taylor, E. G. (M)  
 Taylor, S. G. (M)  
 Taylor, W. H. (M)  
 Theremin, L. (A)  
 Thieblemont, A. H. (A)  
 Thomas, E. R. (A)  
 Thompson, A. C. (A)  
 Thomson, H. M. (A)  
 Tierney, W. L. (M)  
 Tinus, W. C. (M)  
 Toth, A. (A)  
 Towner, O. W. (M)  
 Truax, J. (A)  
 Turner, A. (A)  
 Ulrich, V. K. (S)  
 Vanacore, T. (A)  
 Veazie, E. A. (A)  
 Velling, R. H. (A)  
 Wald, D. (A)  
 Waring, J. T. (A)  
 Waterman, F. N. (M)  
 Waxler, B. (A)  
 Weiland, C. F. V. L. (A)



Wertheimer, S. M. (A)  
 Whistler, J. P. (A)  
 White, F. E., Jr. (A)  
 Whittemore, L. E. (F)  
 Willard, G. W. (A)  
 Willis, F. H. (A)  
 Wilmotte, R. M. (M)  
 Wilson, D. B. (A)  
 Wilson, W. (F)  
 Winterbottom, W. A.  
 (M)  
 Wintringham, W. T. (A)  
 Wise, W. H. (M)  
 Wittlig, P. F. (A)  
 Wolff, S. (A)  
 Woods, W. A. (A)  
 Woodward, V. M. (A)  
 Woodworth, F. B. (M)  
 Wright, S. B. (A)  
 Young, O. D. (F)  
 Youngstrom, N. C. (A)  
 Zeamans, H. R. (A)  
 Zima, C. L. (S)

# BROOKLYN

Ackerlind, E. (A)  
 Auerbach, I. (A)  
 Becken, E. D. (A)  
 Bernstein, C. M. (A)  
 Bower, J., Jr. (A)  
 Brimberg, I. (A)  
 Castle, D. H. (A)  
 Chernow, M. (A)  
 Conviser, H. (A)  
 D'Agostino, V. F. (A)  
 Day, G. (A)  
 De Mann, W. A. (A)  
 De Myer, H. (A)  
 Dreyer, J. F., Jr. (A)  
 Ensmann, B. (A)  
 Evans, P. H. (F)  
 Fishberg, S. L. (A)  
 Florez, H. (A)  
 Greibach, E. H. (A)  
 Haas, M. J. (A)  
 Hall, R. E. (A)  
 Hare, M. L. (A)  
 Hart, G., III (J)  
 Hesse, H. R. (A)  
 Holetz, A. C. (A)  
 Hutchinson, H. P. (A)  
 Jones, C. B. (A)  
 Kalish, A. (A)  
 Kaplowitz, M. (A)  
 Kinney, G. F. (A)  
 Kirdahy, E. (A)  
 Kovacs, S. (A)  
 Kurrelmeyer, B. (M)  
 Kurtz, J. A. (A)  
 Levine, H. (A)  
 Likel, H. C. (A)  
 Lush, W. G. (M)  
 Marcuvitz, N. (S)  
 Marriott, R. H. (F)  
 Mazyck, E. H. (A)  
 Mazzola, J. R. (A)  
 McLaughlin, T. J. (A)  
 Miller, M. L. (A)  
 Morton, A. R. (M)  
 Moseley, F. L. (A)  
 Mucher, G. J. (A)  
 Nagy, A. W. (A)  
 Nestor, J. (J)  
 Oliver, G. E. (M)  
 Patrone, E. F. (A)  
 Pekin, H. T. (S)  
 Reinecke, B. V. (A)  
 Ringel, A. (M)  
 Rojas, F. R. (A)  
 Rosenbaum, A. H. (A)  
 Rosenbaum, J. (A)  
 Rothenberg, S. M. (A)  
 Salzman, D. (A)  
 Santos, A. (A)  
 Schiffman, S. (A)  
 Schumacker, A. L. (A)

Silver, B. L. (A)  
 Skinner, M. F. (A)  
 Stobbe, J. A. (A)  
 Stromwall, C. W. (A)  
 Talley, D. (A)  
 Testan, P., Jr. (A)  
 Tuckerman, L. P. (M)  
 Vartanian, A. A. (A)  
 Von Baudissin, J. (A)  
 Weinberg, S. (A)  
 White, R. L. (S)  
 Whitehead, J. C. (A)  
 Williams, H. T. (A)  
 Winchell, W. H. (A)  
 Wolf, N. I. (S)  
 Wynne, W. M. (A)  
 Zeiger, L. B. (A)

# QUEENS

ASTORIA, L.I.  
 Brady, W. (A)  
 Graham, W. A. (A)  
 Miller, E. C. (A)  
 Simmons, R. A. (A)  
 Soukup, J. E. (A)  
 BAYSIDE, L.I.  
 Fultz, M. E. (A)  
 Goodale, E. D. (A)  
 Lyons, W. (A)  
 Richardson, A. G. (M)  
 Valentine, R. D. (A)  
 Whitman, V. E. (A)  
 BELLAIRE, L.I.  
 Shea, R. F. (M)  
 FLUSHING, L.I.  
 Barber, A. W. (A)  
 Caumont, A. F. (A)  
 Farrington, J. F. (F)  
 Hana, T. C. (A)  
 Hopkins, E. J. (A)  
 Hurff, J. L. (A)  
 Lebert, A. W. (A)  
 Scofield, R. W. (A)  
 Taylor, P. H. (A)  
 Toth, E. (A)  
 Troxler, L. J., Jr. (A)

FOREST HILLS, L.I.  
 Bonanno, J. L. (A)  
 Canavacioli, F. E. (M)  
 Finnigan, C. W. (A)  
 Gentsch, M. F. (A)  
 Oram, D. K. (A)

HOLLIS, L.I.  
 Caputo, N. J. (A)  
 Srebroff, C. M. (M)

JACKSON HEIGHTS, L.I.  
 Burroughs, G. S. (A)  
 Connor, G. C. (A)  
 Darwin, F. A. (S)  
 Heindel, H. J. (A)  
 Hickman, C. N. (A)  
 Kelley, L. A. (A)  
 Mead, P. R. (A)  
 Monfort, R. A. (A)  
 Neiman, W. E. (A)  
 Rankin, J. A. (A)

JAMAICA, L.I.  
 Stellwagen, F. W. (A)

LITTLE NECK, L.I.  
 de Neuf, D. K. (A)  
 Kunicky, B. F. (A)  
 Schultes, M. F. (A)

LONG ISLAND CITY, L.I.  
 Dinga, E. W. (A)  
 Martin, L. (M)  
 Thompson, S. T. (A)  
 White S. Y. (M)

OZONE PARK, L.I.  
 Hansen, E. L. (A)  
 Kahn, A. (A)

QUEENS VILLAGE, L.I.  
 Gaydos, G. J. (A)  
 Joss, E. T. (A)  
 Sypher, E. L., Jr. (A)

REGO PARK, L.I.  
 Gunther, F. A. (M)  
 Wilkens, W. B. (A)

RICHMOND HILL, L.I.  
 Jacobs, F. (A)  
 Leyh, W. D. (A)

ST. ALBANS, L.I.  
 Batcher, R. R. (M)  
 McDougall, J. A. (S)

WHITESTONE, L.I.  
 Holzinger, T. E. (A)  
 Lederhaus, H. W. (A)

WOODHAVEN, L.I.  
 Culmone, F. T. (A)

WOODSIDE, L.I.  
 Gamble, W. T. (A)  
 Lyle, A. E. (M)  
 Reuman, W. H. (A)

STATEN ISLAND  
 Reynolds, W. W. (A)

NEW DORP, S.I.  
 Hoffman, R. W. (A)  
 Ligh, C. (M)  
 Nelson, C. F. (M)

RANDALL MANOR, S.I.  
 Rodwin, G. (A)

WEST NEW BRIGHTON, S.I.  
 Wilby, E. W. (A)  
 Wilbur, E. C. (A)

Niagara Falls  
 Bovee, B. A. (A)  
 Libbury, F. A. (A)  
 Rogers, K. E. (A)

North Pelham  
 Cockaday, L. M. (M)  
 Siebert, G. W., Jr. (A)

North Tarrytown  
 Akin, R. M. (A)

North Tonawanda  
 Christensen, A. B. (A)  
 Hayslett, LaM. E. (A)  
 Manning, F. W. (A)  
 Riggs, J. H. (A)  
 Schmidt, F. M. (A)

Norwich  
 Huntley, K. L. (A)

Nyack  
 Ames, J. T. (A)

Oceanside, L.I.  
 Dreyer, H. W. (M)

Orient  
 Vail, L. G. (A)

Ossining  
 Rappaport, M. (A)

Pearl River  
 Baker, C. I. (M)

Pelham Manor  
 Seeley, S. W. (A)

Point Pleasant  
 Moxon, A. W. (A)

# NEW YORK

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Darling, A. I. (A)  
Fingerle, W., Jr. (S)

**Port Jefferson, L.I.**  
Carter, P. S. (A)  
Dow, O. E. (A)  
Hansell, C. W. (M)  
Lindenblad, N. E. (M)

**Port Washington, L.I.**  
Hafner, G. M. (A)

**Potsdam**  
Maylott, C. F. (A)

**Poughkeepsie**  
Mahler, R. J. (A)  
Northrop, P. A. (A)  
Underhill, G. H. (A)

**Richfield Springs**  
Taber, I. D. (A)

**Riverdale-on-Hudson**  
Baum, D. C. (S)  
Freed, J. D. R. (F)

**Riverhead, L.I.**  
Bond, E. F. (A)  
Braaten, A. M. (A)  
Crosby, M. G. (A)  
George, R. W. (A)  
Goddard, D. R. (A)  
Katzin, M. (A)  
Lindow, I. L. (A)  
MacLean, K. G. (A)  
Moore, J. B. (A)  
Peterson, H. O. (M)  
Rundquist, E. C. (A)  
Saphir, F. (A)  
Schock, R. E. (A)  
Schoenborn, F. J. W. (A)  
Trevor, B. (A)  
Wickizer, G. S. (A)  
Winans, P. V. (A)

**Rochester**  
Anderson, R. S. (A)  
Angevine, O. L., Jr. (A)  
Bellor, W. F. (A)  
Biggar, R. A. (A)  
Boberg, C. P. (S)  
Brown, H. A. (A)  
Bullis, O. F. (A)  
Clarke, M. H. (A)  
Cotter, W. F. (A)  
Craib, J. F. (S)  
Du Bridge, L. A. (A)  
Fisher, H. F. (A)  
Gordon, H. E. (A)  
Hanover, E. A. (A)  
Henderson, K. L. (A)  
Huntington, M. B. (A)  
Karker, E. C. (A)  
Klumb, H. J. (A)  
Lawrence, H. E. (A)  
Lowry, C. A. (M)  
Manson, R. H. (F)  
McCanne, L. (A)  
Misener, G. C. (A)  
Ruth, R. A. (A)  
Schoen, A. L. (A)  
Sullivan, R. (A)  
Wallis, C. T. (A)

**Rockville Center, L.I.**  
Cardwell, A. D. (A)  
Harper, A. E. (M)  
Hinnars, F. A. (F)  
Leuteritz, H. C. (A)  
Uzmann, J. G. (M)

**Rocky Point, L.I.**  
Clifton, B. S. Y. (M)  
Finch, J. L. (M)  
Goldstine, H. E. (A)  
Kroger, F. H. (F)  
Martin, C. A. (S)

McKesson, L. J. (A)  
Peterson, L. E. (A)  
Uselman, G. L. (A)

**Rome**  
Fitch, J. A. (A)

**Roosevelt, L.I.**  
Adachi, W. Y. (A)

**Sayville, L.I.**  
Hart, F. A. (A)  
Sprague, R. M. (A)

**Scarsdale**  
Appel, J. H., Jr. (A)  
Fearing, J. L. (A)

**Schenectady**  
Alexanderson, E. F. W.  
(F)

Andrews, P. D. (M)  
Bartelink, E. H. B. (A)  
Broughton, W. G. (A)  
Brown, J. G. (S)  
Brown, W. W. (M)  
Crosby, H. M. (A)  
Darlington, E. S. (A)  
David, W. R. (A)  
De Walt, K. C. (A)  
Dickinson, T. M. (A)  
Drayer, R. W. (S)  
Elwood, E. S., Jr. (S)  
Fick, C. G. (A)  
Ford, W. A. (M)  
Fritschel, P. G. (S)  
Goodhue, W. W. (A)  
Graf, A. W. (A)  
Grover, F. W. (M)  
Henyan, G. W. (A)  
Howard, S. B. (S)  
Jensen, R. C. (A)  
Johnson, T., Jr. (M)  
Junkin, L. H. (A)  
Larson, R. W. (A)  
Lattermann, W. (A)  
Leeds, L. M. (A)  
Marvin, H. B. (M)  
Mayer, H. F. (A)  
Mead, M. S., Jr. (A)  
Meahl, H. F. (A)  
Metcalf, G. F. (A)  
Michel, P. C. (A)  
Muchow, A. J. (A)  
Norgaard, D. E. (S)  
Patterson, F. G. (A)  
Pennoyer, R. T. (A)  
Pike, O. W. (M)  
Powles, F. T. (A)  
Priest, C. A. (A)  
Reynolds, F. M. (A)  
Rice, C. W. (F)  
Rust, W. F., Jr. (S)  
Scheldorf, M. W. (A)  
Schwenker, A. H. (A)  
Smith, H. A. (A)  
Smith, R. L. (A)  
Summerhayes, H. R., Jr.  
(A)

Taylor, J. P. (A)  
Taylor, L. A. (A)  
Thomas, H. P. (A)  
Tripp, A. B. (A)  
Wadsworth, C. A. (A)  
Watts, D. E. (A)  
Weir, I. R. (A)  
White, W. C. (M)  
Williams, W. R. (A)  
Winlund, E. S. (S)  
Yerian, C. S. (A)

**Scotia**  
Beggs, J. E. (A)  
Caldwell, P. G. (A)  
Clarke, V. J. (A)  
Cook, E. D. (A)  
Hahn, W. C. (A)  
Leibing, J. K. (A)  
Williamson, R. H. (A)

**Snyder**  
Osborne, F. H. (A)

**Southampton, L.I.**  
Homer, E. C. (A)  
Millar, J. Z. (A)

**Spring Valley**  
Knaack, F. E. (A)

**Stafford**  
Sheffer, O. N. (A)

**Stewart Manor, L.I.**  
Dewhirst, T. P. (A)

**Syracuse**  
Mullin, L. A. (A)  
Randall, D. P. (A)  
Smith, K. B. (A)  
Steates, E. F. (A)

**Tonawanda**  
Bauer, H. G. (A)  
Best, T. A. Jr. (A)  
Vorie, I. N. (A)

**Troy**  
Banker, J. R. (S)  
Christaldi, P. S. (S)  
Harris, H. D. (A)  
Hayward, J. W. (S)  
Lavender, R. W. (S)  
Stoker, W. C. (A)  
Stucky, J. B. (S)  
Wilbur, D. A. (A)

**Tuckahoe**  
Chinn, H. A. (M)

**Tuxedo Park**  
Loomis, A. L. (M)

**Utica**  
Wolcott, W. E. (A)

**Valley Stream, L.I.**  
Vollkommer, W. A. (A)

**Water Mill, L.I.**  
Corwith, H. P. (M)

**Waverly**  
Sosnoski, W. J. (A)

**Westbury, L.I.**  
Eldredge, E. E. (A)

**West Hempstead, L.I.**  
Kilmer, T. W., Jr. (A)

**West Point**  
King, C. J., Jr. (A)

**White Plains**  
Barnes, J. C. (A)  
Griggs, E. V. (A)  
Lamarque, J. W. (A)

**Williamsville**  
Fund, S. R. (A)  
Hopkins, N. S. (A)

**Wolcott**  
Harrison, W. M. (A)

**Yonkers**  
Campbell, J. A. (A)  
Craig, A. G. (A)  
Grand, J. (A)  
Howard, E. J. (A)  
Kidd, G. B. (A)  
Lieb, J. S. (A)  
Looney, L. A. (A)  
Petersen, R. L. (A)  
Runyon, C. R., Jr. (A)  
Sefton, E. F. (A)  
Seitz, F. A. (A)  
Van Dyck, A. F. (F)

## NORTH CAROLINA

**Asheville**  
Brimley, A. H. (A)

Burlington  
Wallace, H. E. (A)

Charlotte  
Rosekrans, P. (A)

Durham  
Dalton, R. A. (A)  
Seeley, W. J. (A)

Fort Bragg  
Potect, D. P. (A)

Greensboro  
Marteena, J. M. (A)

Raleigh  
Hulick, H. H. (A)  
Smith, C. McR., Jr. (A)

Washington  
Jowdy, M. (A)

Wilmington  
Peebles, N. A. (A)

Wilson  
Cavenaugh, C. D. (A)

## NORTH DAKOTA

Elgin  
Denk, W. E. (A)

Fargo  
Hetland, J. M. (A)

Grand Forks  
O'Brien, E. J. (A)

## OHIO

Akron  
Aitkenhead, J., Jr. (A)  
Bosomworth, G. P. (A)  
Curtis, J. O. (A)  
Dinger, H. E. (A)  
Smith, P. C. (A)

Athens  
Green, D. B. (A)

Barberton  
Austin, A. O. (F)  
Foraker, C. M. (S)  
Snyder, E. B. (M)

Bedford  
Jerome, W. R. (A)

Berlin Heights  
Kenyon, H. S. (A)

Blanchester  
Saville, H. F. (A)

Blue Ash  
Chapman, R. T. (A)

Brecksville  
Bennett, M. T. (A)

Canton  
Phillips, W. M. (A)  
Weckel, W. E. (A)

Cheviot  
Felix, C. G. (A)  
Lepple, H. (A)

Cincinnati  
Aughenbaugh, W. K. (A)  
Baylor, A. D. (A)  
Booth, R. M., Jr. (A)  
Brauer, H. H. (S)  
Brester, W. A. (S)  
Bussard, E. J. H. (M)  
Crosley, P., Jr. (M)  
Davis, G. A. (A)  
Dieringer, F. A. (A)  
Foster, A. P. (A)  
Freeman, R. L. (A)  
Graef, R. P. (S)

Grinstead, C. E. (S)  
Hoffman, R. (A)  
Hultberg, C. A. (M)  
Kierulff, W. E. (M)  
Kilgour, C. E. (M)  
Knoblauch, A. F. (A)  
Kolks, R. H. (A)  
Lehnhoff, R. G. (A)  
Lockwood, E. C. (A)  
Luhn, C. W. (A)  
Marshall, C. J. (A)  
McDonald, J. M. (A)  
Osterbrock, W. C. (A)  
Peterson, C. W. (M)  
Platts, G. F. (A)  
Raabe, V. (S)  
Rock, J. B. (M)  
Rockwell, R. J. (M)  
Silver, J. F. (A)  
Stephen, H. W. (A)  
Tyzzar, H. J. (A)  
Vanek, L. J. (A)  
Wedig, F. L., Jr. (A)  
Wells, M. M. (A)  
Wrockloff, G. F., Jr. (A)

Clayton  
Jones, C. C. (A)

Cleveland  
Ackerman, E. K. (A)  
Akers, W. F. (A)  
Auld, D. G. (S)  
Banfer, K. J. (A)  
Benkelman, G. F. (A)  
Bowditch, F. T. (A)  
Brooke, A. W. (S)  
Canady, D. R. (A)  
Carment, J. M. (A)  
Caskey, H. B. (A)  
Chatterton, L. N. (A)  
David, B. W. (M)  
Dorn, H. P. (A)  
Dutton, C. E. (A)  
Eberle, W. H. (A)  
Engholm, B. A. (M)  
Fill, T. (A)  
Fletcher, E. S. (M)  
Gove, E. L. (M)  
Hineline, H. D. (M)  
Hunt, L. W. (A)  
Jones, M. S. (A)  
Knife, W. I. (A)  
Kochlitz, B. H. (A)  
La Marsh, J. E. (S)  
Leonard, E. S. (A)  
Marsal, P. A. (A)  
McMahon, A. (A)  
Meola, L. K. (A)  
Mohl, J. F. (A)  
Okeson, H. B. (A)  
Ostrander, R. S. (A)  
Pacanovsky, G. J. (S)  
Pierce, R. M. (A)  
Plakadis, A. P. (A)  
Pruitt, W. C. (A)  
Reynolds, C. B., Jr. (A)  
Roohk, H. V. (A)  
Seletzky, A. C. (A)  
Smith, S. E. (A)  
Williams, H. C. (A)  
Woodward, J. D. (A)

Cleveland Heights  
Snyder, R. E. (A)  
Warshaw, J. (S)  
Weiss, H. M. (S)

Columbus  
Beer, R. M. (A)  
Bidlack, C. S. (A)  
Everitt, W. L. (M)  
Fanley, E. J. (S)  
Higgy, R. C. (A)  
McClelland, A. C. (A)  
Miller, G. A. (S)  
Moore, W. M. (A)  
Prehn, L. D. (S)

Renner, D. S. (A)  
Roberts, S. (A)  
Shaw, R. Mac K. (A)  
Spangenberg, K. (A)  
Stasz, C. E. (A)  
Young, D. A. (A)

Convoy  
Hoelle, L. C. (A)

Cuyahoga Falls  
Farrington, R. A. (S)

Dayton  
Apple, R. C. (A)  
Barbulesco, C. D. (M)  
Beugen, A. A. (A)  
Boes, W. W. (A)  
Bossard, G. L. (M)  
Bunting, T. R. (M)  
Drake, R. L. (A)  
Eaton, W. G. (M)  
Eckert, C. C. (A)  
Gallay, H. (A)  
Goldstein, M. K. (A)  
Haller, G. L. (M)  
Hallman, L. B., Jr. (A)  
Hendricks, L. A. (A)  
Herson, J. L. (A)  
Hoffstetter, G. E. (A)  
Kilheffer, L. D. (A)  
Kouchnerkavich, T. A. (A)  
Lynan, R. P. (M)  
McClurg, G. H. (A)  
Parker, A. P. (A)  
Retter, C. T. (A)  
Richmond, L. P. (A)  
Roddy, V. S. (A)  
Taylor, P. B. (A)  
Welker, J. W. (A)  
White, D. B. (A)  
Wilkie, H. (A)  
Yolles, J. (A)  
Zimmerman, R. F. (A)

Deshler  
Brown, M. H. (S)

East Cleveland  
Beasley, I. E. (A)  
Hill, J. S. (A)  
Shipman, C. H. (A)

East Sparta  
Walker, N. S. (A)

Fairfield  
Hill, G. (F)  
Magee, E. E. (A)

Greentown  
Myers, W. D. (A)

Hamilton  
Staeger, S. A. (A)

Ironton  
Loftis, H. J. (A)

Lakewood  
Fox, R. A. (A)  
Greene, F. M. (A)  
Grostick, G. E. (A)  
Hamman, G. B. (A)  
Hanson, E. C. (A)  
Kibler, P. I. (S)  
Sibila, K. F. (S)  
Stoffel, L. L. (A)

Lebanon  
Leydorf, G. F. (A)  
Stocker, H. C. (A)

Lorain  
Heisner, D. A. (A)

Mason  
Duncan, R. S. (A)  
Whitehouse, J. E. (A)

Massillon  
Schwab, C. B. (A)



# OHIO

Medina  
Hammerschmidt, A. L. (S)

Miamitown  
Gieringer, C. K. (A)

Middletown  
Butts, R. S. (S)

Minerva  
Ruc, H. E. (S)

North Canton  
De Moss, G. N. (A)

North Lima  
Goodwin, W. J. (A)

Osborn  
Guest, W. T. (A)

Oxford  
Damm, R. M. (A)

Parma  
Smith, C. E. (A)

Pittsburg  
Erisman, R., Jr. (S)

Salem  
Erwin, R. W. (A)

Sandusky  
Brindle, T. A. (A)

South Euclid  
Ryder, J. D. (A)

Springfield  
Byram, F. C. (A)  
Ebert, H. J. (A)

Steubenville  
Harris, R. P. (A)

Toledo  
Biebesheimer, W. B. (S)  
Bitter, A. R. (A)  
Brennecke, C. G. (A)  
Neuert, H. L. (A)  
Pilzecker, A. (A)  
Stringfellow, W. M. (A)

Vandalia  
Rucker, F. (A)

Van Wert  
Conley, W. H. (S)

Warren  
Humphrey, S. M. (A)  
Pew, R. K. (A)

Westerville  
Naizger, L. H. (A)

Woodfield  
Fliehman, G. E. (A)

Yellow Springs  
Carr, D. L. (S)

Youngstown  
Makinson, G. E. (A)  
Wilkins, B. T. (A)

Zanesville  
Arnold, R. M. (A)

## OKLAHOMA

Ardmore  
Holaday, D. F. (A)

Duncan  
Meszaros, W. A. (A)

Enid  
Reeves, J. R. (A)

Hugo  
Wright, A. J., Jr. (A)

Oklahoma City  
Challenner, A. P. (A)

Herrmann, F. (A)  
Lovell, H. J. (A)  
McKinney, E. G. (A)  
Sears, G. D. (A)  
Wheeler, F. (A)

Shawnee  
Waller, J. L., Jr. (S)

Tulsa  
Born, W. T. (A)  
Carpenter, H. (A)  
Floyd, F. M. (A)  
Green, W. G. (A)  
Peters, L. J. (A)  
Probert, E. (A)  
Sheaffer, C. F. (A)  
Stinson, L. W. (A)  
Van Doeren, C. A. (A)

## OREGON

Beaver Creek  
Stone, L. N. (A)

Corvallis  
Albert, A. L. (A)  
Feikert, G. S. (A)  
Yunker, E. A. (A)

Klamath Falls  
Anderson, H. C. (A)

Medford  
Walker, V. G. (A)

Myrtle Point  
Cutler, K. W. (A)

Oakridge  
Wolf, B. A. (A)

Portland  
Belleville, L. M. (A)  
Bookwalter, L. S. (A)  
Clark, K. G. (A)  
Deardorff, R. W. (A)  
Meissner, E. R. (A)  
O'Day, M. (A)  
Paul, B. R. (A)  
Simson, A. G. (A)  
Singleton, H. C. (A)

Salem  
Patton, W. R. (A)  
Poujade, D. G. (A)

## PENNSYLVANIA

Abington  
Pressley, J. H. (F)

Aldan  
Earle, R. P. (A)

Allentown  
Brown, H. J. (A)  
Hilliard, W. E. (A)  
Taylor, R. R. (A)  
Young, C. S. (A)

Altoona  
Findley, J. D., Jr. (S)

Ardmore  
Williamson, J. F. (A)  
Zentgraf, J. A., Jr. (A)

Bala Cynwyd  
Bean, N. S. (A)

Bethlehem  
Craig, P. H. (A)  
Formhals, W. H. (A)  
Frey, A. R. (A)  
Harper, R. E. (A)  
Hoyler, C. N. (A)  
Knutson, H. C. (A)  
Seyfert, S. S. (M)

Bradford  
Francis T. C. (A)

Carnegie  
Stark, R. E. (A)  
Yoder, L. E. (A)

Central City  
Sponeyberger, J. O. (A)

Chester  
Rapagnani, P. A. (A)

Drexel Hill  
Sharples, A. R. (A)

Duquesne  
Murcek, S. J. (A)

Easton  
King, R. W. P. (A)

East Pittsburgh  
Chubb, L. W. (M)  
Hanna, C. R. (M)  
Osbon, W. O. (A)

Edgewood  
Poole, L. C. (A)

Elkins Park  
Anderson, E. C. (M)  
Herr, B. R. (A)

Emporium  
Acheson, M. A. (M)  
Aackman, H. E. (M)  
Armstrong, W. M. (A)  
August, N. P. (A)  
Bair, H. A. (A)  
Baldwin, A. V. (M)  
Bateman, F. M. (A)  
Bennett, R. G. (A)  
Brunner, G. W. (A)  
Burns, M. D. (A)  
Campbell, R. E. (A)  
Campbell, V. H. (A)  
Carlson, R. F. (A)  
Carter, E. F. (F)  
Cunningham, S. M. (A)  
Cunningham, W. S. (A)  
Ehlers, H. A. (A)  
Elliott, W. A. (A)  
Erickson, P. W. (A)  
Espersen, G. A. (A)  
Gannon, T. P. (A)  
Goodwin, V. D. (A)  
Graham, V. M. (F)  
Gunnell, G. T. (A)  
Hayward, J. B. (A)  
Herrick, W. W. (A)  
Hoffman, M. C. (A)  
Imboden, G. I. (A)  
Ishler, H. K. (A)  
Johnston, B. R. (A)  
Jones, W. R. (M)  
Jordan, A. D. (A)  
Kahl, M. I. (M)  
Kaplaflka, G. A. (A)  
Keen, A. W. (A)  
Keim, D. Y. (A)  
Kievit, B. (M)  
Klinestiver, G. H. (A)  
Mahaffey, G. N. (A)  
Melzer, H. (A)  
Merkle, R. S. (A)  
Miller, C. F. (A)  
Miller, J. A. (A)  
Mueller, W. P. (A)  
Myers, H. W. (A)  
Orr, M. J. (A)  
Ostrum, S. (A)  
Ottemiller, W. H., Jr. (A)  
Overmier, E. E. (A)  
Palmateer, R. E. (A)  
Palmer, R. N. (M)  
Pomfrett, J. M. (A)  
Ratchford, H. L. (A)  
Raudenbush, C. (A)  
Rishell, G. L. (A)  
Schneider, E. J. (A)  
Smith, C. R. (A)  
Smithgall, H. E., Jr. (A)

- Somers, O. M. (J)  
 Steen, J. R. (M)  
 Stringfellow, G. O. (A)  
 Toner, W. C. (A)  
 Wellendorf, J. J. (A)  
 Welsh, W. T. (A)  
 West, L. E. (M)  
 Wilson, M. D. (M)  
 Wise, R. M. (M)
- Emsworth**  
 McConnell, R. A. (S)
- Erie**  
 Crawford, R. D. (A)  
 Minnium, B. B. (A)  
 Pfeiffer, J. T. (A)  
 Raub, L. A. (A)
- Flourtown**  
 Ellsworth, W. C. (M)
- Fort Washington**  
 Schantz, J. S. (A)
- Fullerton**  
 Bachman, E. J. (A)
- Glenside**  
 Leonard, A. A. (A)
- Harrisburg**  
 Detweiler, J. E. (A)  
 Drumheiser, A. W. (A)
- Haverford**  
 Bruning, J. M. (A)  
 Rittenhouse, L. H. (A)
- Highland Park**  
 Crapp, G. L. (A)
- Honesdale**  
 Woodward, B. J. (A)
- Irwin**  
 Brook, A. (A)
- Jenkintown**  
 Miller, A. C. (A)
- Johnstown**  
 Underhill, C. R., Jr. (A)
- Kingston**  
 Love, R. G. (J)
- Lancaster**  
 Stauffer, J. L. (A)
- Langhorne**  
 Newbold, W. H. (A)
- Lebanon**  
 Stupp, R. W. (A)
- Lemoyne**  
 Smiley, W. A. (A)
- Meadville**  
 Welsher, C. E. (A)
- Media**  
 Packard, C. A. (A)
- Merion**  
 Dohan, W. R. (A)
- Mount Lebanon**  
 Shafer, W. L. (A)
- Narberth**  
 Bates, C. W. (A)  
 Brazee, G. T. (A)  
 Montgomery, A. P. (A)
- New Castle**  
 Martin, N. A. (A)
- Norristown**  
 Place, S. W. (A)  
 Sands, W. F. (A)  
 Zern, R. T. (A)
- Oakmont**  
 Muffly, G. (A)
- Perkasie**  
 Moyer, L. K. (A)
- Philadelphia**  
 Adams, J. J. (A)  
 Airston, A. J. (A)  
 Albright, R. B. (A)  
 Apker, C. L. (A)  
 Barbier, W. H. (S)  
 Bartlett, M. C. (A)  
 Bauer, B. (A)  
 Bechler, W. C., Jr. (A)  
 Behr, L. (A)  
 Bell, R. A. (A)  
 Bell, J. S. (A)  
 Benner, H. S. (A)  
 Bevitt, W. D. (A)  
 Bloomenthal, S. (A)  
 Bowley, R. J. (A)  
 Brainerd, J. G. (A)  
 Brolly, A. H. (M)  
 Brown, R. D., Jr. (A)  
 Bruce, G. B. (A)  
 Chambers, C. C. (A)  
 Clark, C. F. (A)  
 Closson, L. E. (A)  
 Cohen, A. B. (A)  
 Cooper, D. T. (S)  
 Craven, C. L. (A)  
 Crowley, J. F. (A)  
 Dempster, B. (A)  
 Dunn, J. C. (A)  
 Earnshaw, D. P. (A)  
 Eby, J. B. (A)  
 Ellis, W. G. (M)  
 Emerson, K. H. (A)  
 Etkin, H. A. (A)  
 Farnsworth, P. T. (M)  
 Feldstein, M. A. (A)  
 Filderman, J. (A)  
 Flack, S. G. (A)  
 Fraenckel, V. H. (A)  
 Francis, O. T. (A)  
 Freedman, H. J. (A)  
 Freeland, E. C. (A)  
 Gerlach, G. G. (A)  
 Gerstle, I. (A)  
 Gilbert, W. E. (A)  
 Gillen, J. J. (A)  
 Gilmer, J. E. (A)  
 Godsho, A. P. (A)  
 Gohn, C. T. (A)  
 Grinditch, W. H. (M)  
 Guinan, J. J. (A)  
 Hagerty, G. E. (A)  
 Hamilton, S. (A)  
 Head, G., Jr. (A)  
 Hervey, J. P. (A)  
 Hoffman, J. (S)  
 Hooper, G. A. (A)  
 Hopwood, A. M., Jr. (A)  
 Johnston, E. R. (A)  
 Keachie, J. H. (A)  
 Kearney, L. E. (A)  
 Kinnier, D. (A)  
 Konkle, P. J. (A)  
 Kurdziel, J. F. (A)  
 Lakatos, L. L. (A)  
 Leitch, J. G. (M)  
 Lenhart, G. R., Jr. (A)  
 Lev, S. N. (A)  
 Ludwig, S. C., Jr. (A)  
 Lyman, H. J. (A)  
 Marble, F. (A)  
 Marsh, W. E. (A)  
 Marshall, B. T. (A)  
 Matthews, A. C. (A)  
 McIlwain, K. (A)  
 Mevius, J. C. (A)  
 Miller, C. E. (A)  
 Miller, H. G. (M)  
 Mouradian, H. (A)  
 Munton, J. D. (A)  
 Mural, F. (A)  
 Murri, J. (A)
- Parker, W. N. (A)  
 Payne, J. F., Jr. (A)  
 Podolsky, L. (A)  
 Robinson, H. A. (M)  
 Rosencrans, C. A. (A)  
 Rowe, C. R. (M)  
 Sanders, E. W. (A)  
 Saunders, W. P. (A)  
 Schantz, J. D. (A)  
 Senior, D. B. (A)  
 Senn, G. F. (S)  
 Shankweiler, R. G. (A)  
 Shaw, R. F. (S)  
 Sleeper, G. E., Jr. (A)  
 Smith, D. B. (A)  
 Smith, N. F., Jr. (A)  
 Somers, F. J. (A)  
 Spielman, S. C. (A)  
 Stec, C. L. (A)  
 Stewart, F. F., Jr. (S)  
 Tarpley, R. E. (A)  
 Teller, J. C. (S)  
 Thomas, H. E. (A)  
 Travis, C. (A)  
 Tuska, C. D. (A)  
 Walker, H. (A)  
 Weil, W. S., Jr. (S)  
 Weise, R. C. (A)  
 West, H. L. (A)  
 Whitney, A. (A)  
 Williams, A. J., Jr. (A)  
 Woll, C. F. (A)  
 Woods, L. (M)  
 Woodbridge, A. C. (A)  
 Worrell, H. S. (A)  
 Zwicker, H. H. (A)
- CHESTNUT HILL**  
 Maxwell, J. F. (A)  
 Vance, D. H. (A)
- FOX CHASE**  
 MacFadden, W. C. (A)  
 Merman, J. C. (A)  
 Thompson, M. L. (A)
- FRANKFORD**  
 Schnitzer, B. E. (A)
- GERMANTOWN**  
 Applegarth, A. R., Jr. (A)  
 Bengé, J. R. (A)  
 Brothers, J. T. (A)  
 Fisher, R. S. (A)  
 Miles, W. F. (S)  
 Wannamaker, W. H., Jr. (A)
- LAWNDALE**  
 Trumphy, J. W. (A)
- MOUNT AIRY**  
 Bingley, F. J. (M)  
 Ehret, C. D. (F)  
 McDowell, A. P., Jr. (A)  
 West, W. P. (A)
- WEST PHILADELPHIA**  
 Caulton, C. O. (A)  
 Frenz, H. J. (A)
- Pittsburgh**  
 Allen, J. G. (M)  
 Barton, J. P. (A)  
 Baudino, J. E. (A)  
 Baumgarten, F. A. (A)  
 Bensley, J. T. (J)  
 Clement, P. F. (A)  
 Douglass, R. H. (A)  
 Gabler, R. T. (A)  
 Goodboy, G. O. (A)  
 Gorham, R. C. (A)  
 Griffith, R. T. (A)  
 Hamilton, G. L. (A)  
 Jackson, A. H. (A)  
 Krause, C. K. (A)  
 Lazich, B. (A)  
 Lerza, F. F. (S)  
 Overholt, R., Jr. (A)

# PENNSYLVANIA

Schultz, L. J. (A)  
Shreve, A. F. (A)  
Staubitz, E. J. (A)  
Stoddard, R. N. (A)  
Sunnergren, A. P. (A)  
Terven, L. A. (M)  
Vogt, L. E. (A)

Pottstown  
Mellon, R. E. P. (A)

Quakertown  
Afflerbach, E. K. (A)  
Leibe, F. A. (A)

Reading  
Landis, H. O. (A)  
Liesman, F. J. (A)

Ridgway  
Deichman, G. A. (A)

Rosemont  
Forstall, E. L. (A)

Rutledge  
Clapp, R. G. (A)

St. Marys  
Abbott, H. W. (A)  
Andrews, L. D. (A)  
Bachman, C. H. (A)  
Bowie, R. M. (M)  
Dehlinger, W. (A)  
Fink, G. A. (A)  
Herrick, G. G. (A)  
Hoffman, E. J. (A)  
Hoffman, R. K. (M)  
Larson, E. P. (A)  
May, M. S. (A)  
Moore, W. R. (A)  
Pierson, I. S. (A)  
Williams, H. A. (A)

Scranton  
Dolph, S. E. (A)  
Mack, D. W. (A)  
Witkowski, J. F. (A)

Sharon  
Rankin, S. A. (A)

Smethport  
Biever, F. H. (A)

Spring City  
Wynn, J. C. (A)

Springfield  
Morgan, R. T., Jr. (A)

State College  
Woodruff, E. C. (M)

Stony Creek Mills  
Hornberger, J. E. (A)

Swarthmore  
Hayes, R. S. (A)  
McKenzie, A. A. (A)

Swissvale  
Bossart, P. N. (A)  
Whitelock, L. D. (A)

Tarentum  
Porter, H. F. (A)

Tyrone  
Kearney, H. B. (A)

Upper Darby  
Gengenbach, A. W. (A)  
Kirk, W. C. (A)  
Latsha, M. P. (A)  
Marsten, J. (M)  
Neily, J. W. (S)

Villanova  
Bueche, H. S. (A)

Wayne  
Smith, A. H. R. (A)

Warren  
Gruninger, J. E. (A)

West Chester  
Comfort, H. F. (A)

Wilkes-Barre  
Shuster, E. F. (A)

Wilkesburg  
Bartlett, C. O. (S)  
Davis, S. I. (A)  
Hughes, E. T. (A)  
Lund, A. O. (A)  
Mag, A. (A)  
Place, W. P. (A)  
Roake, W. C. (A)  
Sutherlin, L. (M)  
Ulrey, D. (A)  
Weaver, C. H. (S)

York  
Lever, P. R. E. (A)  
Weaver, W. N. (A)  
Weigel, R. C. (A)

## RHODE ISLAND

East Providence  
Andrews, H. L. (A)

Newport  
Harvey, L. M. (M)

Pawtucket  
Cumerford, A. S. (A)

Providence  
Dandreta, W. (A)  
Huddy, F. S. (A)  
Saxl, I. J. (M)

Woonsocket  
Teachman, A. E. (A)

## SOUTH CAROLINA

Bradley  
Mayer, I. S. (S)

Charleston  
Zeigler, T. W. (A)

Clemson College  
Tingley, F. T. (A)

Parris Island  
Vanderhoof, J. (A)

Spartanburg  
Wallace, R. M. (A)

## SOUTH DAKOTA

Pierre  
Craig, R. B. (A)  
Gull, R. A. (A)

Vermillion  
Rawlins, R. E. (S)

## TENNESSEE

Chattanooga  
George, E. E. (A)  
Staples, E. S. (A)  
Thurnauer, H. (A)

Knoxville  
Adcock, S. E. (A)  
Epperson, J. B. (A)  
Sharpe, M. O. (A)

Lebanon  
Smith, G. G. (S)

Memphis  
Parker, J. C. (A)  
Slavick, H. W. (A)

Nashville  
Campbell, J. S. (A)  
De Witt, J. H., Jr. (A)

## TEXAS

Albany  
Cordington, J. H. (A)

Amarillo  
Gooch, C. S. (A)

Austin  
Jones, H. W. (S)

Baytown  
Cornelius, L. W. (A)

Beaumont  
Bush, C. R. (A)  
Grenader, P. (A)  
Rainwater, B. V. (A)

Brenham  
Lenert, R. H., Jr. (A)

College Station  
Dillingham, H. C. (A)  
Jackson, W. M. (A)

Corpus Christi  
Lockhart, H. B. (A)

Dallas  
Blett, E. B. (A)  
Chapman, A. B. (A)  
Crabtree, A. E. (A)  
Cullum, A. E., Jr. (A)  
Flynn, R. M. (A)  
Jacobson, L. (A)  
McDermott, E. (A)  
Newton, W. W. (A)  
Paslay, LeR. C. (A)  
Penn, W. D. (A)  
Rich, F. L. (A)  
Sullivan, J. R. (A)  
Tucker, D. J. (A)  
Witty, W. M. (A)  
Zeidlík, W. J. (A)

Del Rio  
Cammack, W. R. (A)  
Weldon, J. O. (A)

Eagle Pass  
Branch, W. E. (M)  
Stroebel, J. C., Jr. (M)

El Paso  
Gemoets, E. L. (A)  
Talbot, E. P. (A)

Fort Worth  
Adams, R. E. (A)  
Applegate, H. E. (A)  
Benzon, C. G. (A)  
Berg, A. A. E. (A)  
Currie, W. O. (A)  
Tinsley, A. B. (A)

Galveston  
McCabe, L. L. (M)

Grapevine  
Peterson, D. A. (A)

Houston  
Bailey, H. M. (A)  
Caplan, R. S. (A)  
Dupree, E. M. (M)  
Gardner, D. H. (A)  
Honnell, P. M. (A)  
Ide, J. M. (A)  
Johnston, T. F. (A)  
Kannennstine, F. M. (A)  
Klipsch, P. W. (A)  
McConnell, H. E. (A)  
Muzzey, D. S., Jr. (A)  
Waters, J. S. (A)  
Wheeler, H. T. (A)  
Wyckoff, R. D. (M)



Laredo  
Meza, J. O. (A)  
Kojas, A. H. (A)

Lufkin  
Saxon, M. (A)

Marshall  
Lea, N. J. (A)

Monroe City  
Smith, M. H. (S)

Overton  
Hull, F. K. (A)

Pasadena  
Meyer, J. M. (A)

Plano  
Hays, H. D. (A)

San Antonio  
Barragan, M. B. (A)  
Hallam, J. T. (A)  
Snyder, G. H. (A)  
Wall, L. D. (A)

Sourlake  
Daniels, T. E. (A)

Waco  
Jackson, F. P. (A)

# UTAH

Ogden  
Cozzens, W. D'O. (A)

Salt Lake City  
Baldwin, J. M. (A)  
Cox, F. V. (A)  
Groves, W. E. (A)  
Pack, E. G. (M)  
Stevenson, R. S. (A)  
Wilson, T. L. (A)  
Wright, P. B. (S)

# VERMONT

Northfield  
Howes, D. E. (A)

Rutland  
Davis, A. F. (A)

Windsor  
Osgood, R. E. (A)

# VIRGINIA

Alexandria  
Bloch, I. (A)  
Dowie, J. A. (M)  
Greenleaf, S. A. (A)

Arlington  
Peterson, C. U. (A)  
Stokes, H. S. (A)

Blacksburg  
Murray, W. A. (A)

Charlottesville  
Harrison, C. W., Jr. (A)

Clarendon  
Johnson, A. E. (A)

Langley Field  
Messer, H. G. (A)

Lynchburg  
Williams, R. L. (A)

Newport News  
Behner, H. C. (M)  
Wilson, C. C. (A)

Norfolk  
Grether, J. L. (A)  
Ruhsenberger, J. R. (A)

Portsmouth  
Baart, J. C. (A)

Quantico  
Brandis, L. J. (A)  
Kozakewicz, B. J. (A)

Richmond  
Eubank, R. N. (A)

Roanoke  
Avery, R. D. (A)

# WASHINGTON

Bellevue  
Voris, D. L. (A)

Blaine  
Myers, J. S. (S)

Bremerton  
Bowers, R. W. (A)  
Kitchin, H. W. (M)

College Place  
Kretschmar, G. G. (A)

Coulee Dam  
Herr, M. D. (A)

Harrington  
Coombs, W. C. (A)

Kent  
Hart, A. H. (A)

Naches  
Allan, F. S. (A)

Palouse  
Bockmier, C. F. (A)

Pullman  
Lickey, H. F. (A)

Seattle  
Bach, R. O. (A)  
Eastman, A. V. (M)  
Estes, F. B. (A)  
Foster, N. H. (A)  
Frost, N. (S)  
Guptill, H. R. (S)  
Harned, G. C. (A)  
Herndon, L. C. (M)  
Holtan, C. H. (A)  
Hurlbut, H. C. (A)  
Johnson, O. K. (S)  
Kiebert, M. P. (A)  
Kistler, R. E. (A)  
Larson, G. C. (S)  
Larson, H. K. (S)  
Libby, T. M. (M)  
Mason, H. F. (A)  
Mendenhall, G. G. (A)  
Mizell, M. H. (A)  
Paterson, J. M. (S)  
Price, H. J. (A)  
Renfro, H. E. (A)  
Roberts, R. H. (A)  
Ross, J. D. (A)  
Scott, E. D. (A)  
Shepard, W. D. (A)  
Taylor, A. R. (A)  
Tibbals, L. (S)  
Tolmie, J. R. (M)  
Von Alvensleben, G. (S)  
Wah, C. Y. (A)  
Williams, C. E. (M)  
Willson, A. R. (A)

Spokane  
Dunnigan, F. A. (A)  
Green, W. L. (A)  
Prince, F. W. (A)  
Storms, H. J. (A)  
Trowbridge, H. M. (A)

Tacoma  
Cole, B. R. (M)  
Fisher, R. C. (A)  
Pickens, J. C., Jr. (A)  
Wallace, J. W. (A)

Tekoa  
Allison, G. P. (S)

White Swan  
Freeland, C. (A)

# WEST VIRGINIA

Bluefield  
Henderson, W. D. (S)

Charleston  
Goddard, J. B. (A)  
Shaw, H. B., Jr. (A)

Fairmont  
Mason, J. W., III (S)

Huntington  
Steely, J. D. (A)

Institute  
Evans, J. C. (A)

Morgantown  
Colwell, R. C. (M)  
Friend, A. W. (A)

Parkersburg  
Kirk, J. W., Jr. (S)

Wheeling  
Boundy, G. G. (A)

# WISCONSIN

Brookfield  
Haag, M. W. (A)

Eau Claire  
Nelson, O. B. (A)

Horicon  
Pahl, H. H. (A)

La Crosse  
Leeman, A. (A)  
Rhode, E. A. (A)  
Van Loan, C. G. (A)

Madison  
Austin, O. C. (A)  
Bennett, E. (F)  
Buchanan, O. R. (A)  
Kelley, W. V. (A)  
Knopow, J. J. (S)  
Koehler, G. (A)

Manitowoc  
Scholten, C. H. (A)

Milton Junction  
Creutz, J. (A)

Milwaukee  
Cordes, E. L. (A)  
Eckert, F. A. (A)  
Fritschel, H. G. (A)  
Gainer, W. P. (A)  
Gellerup, D. W. (A)  
Hjermstad, H. U. (A)  
Holman, H. M. (A)  
Kaetel, H. C. (A)  
Kruse, C. C. (A)  
Matthias, L. H. (A)  
Naughton, G. J. (A)  
Oetting, O. W. A. (M)  
Pfeifer, J. W. (A)  
Richardson, M. S. (A)  
Sauer, H. C. (A)  
Stockle, E. R. (M)  
Thomas, M. W. (A)  
Wareing, H. F. (M)  
Weller, D. A. (A)

Racine  
Alusic, J. (A)  
Bell, A. LeR. (A)  
Tuttle, LeR. H. (A)

Superior  
Bridges, W. C. (A)

## WISCONSIN

Waukesha  
Hebal, W. H. (A)

West Allis  
Keller, O. (A)

## WYOMING

Cheyenne  
Dyer, W. E. (A)  
Hungerford, N. (A)

Rawlins,  
Seaverson, O. I. (A)

Rock Springs  
Bainbridge, R. M. (A)

## ALASKA

Bramhall, E. H. (A)  
Daigle, A. A. (A)  
Gleason, R. J. (A)  
Hoke, V. L. (A)  
Mason, D. P. (A)

## ARABIA

Nicholls, G. K. (A)

## ARGENTINA

Buenos Aires  
Arnaud, J. P. (A)  
Benjamin, M. (A)  
Beshgetoor, R. V. (A)  
Calvelo, J. P. (S)  
Del Pozo, L. D. (A)  
Grant, I. C. (A)  
Guaragna, L. F. (A)  
Hayes, G. W. (A)  
Lafon, J. B. (A)  
Meier, J. G. (A)  
Noizeux, P. J. (A)  
Penin, R. L. (A)  
Simpson, L. C. (A)  
Stevens, A. M. (F)  
Suarez Scasso, C. A. (A)  
Tarzian, S. (A)  
Tenac, J. C. (A)  
Zuev, V. V. (A)

## ASCENSION ISLAND

Bruce, J. R. (A)

## AUSTRALIA

### NEW SOUTH WALES

Bushby, T. R. W. (A)  
Cradick, R. L. (A)  
Craggs, H. H. (A)  
Freeman, A. C. (A)  
Green, A. L. (A)  
Hicks, G. J. (A)  
Huey, R. M. (A)  
Hynes, F. M. B. (A)  
Jones, C. R. (A)  
Martin, A. F. (A)  
Menon, G. J. (A)  
O'Donnell, A. L. (A)  
Phillips, F. A. (A)  
Ryan, A. J. (A)  
Slade, C. W. (A)  
Smith, A. C. (A)  
Wood, H. B. (A)  
Wyles, D. G. (M)

### Sydney

Baird, W. R. (A)  
Bean, L. P. R. (M)  
Brooker, V. M. (M)  
Builder, G. (A)

Chittock, K. H. (A)  
Court, T. P. (A)  
Cross, C. E. (A)  
Dobbie, L. G. (A)  
Fisk, E. T. (F)  
Graham, L. B. (A)  
Hooke, L. A. (M)  
Kennell, R. J. W. (M)  
MacLurcan, C. D. (A)  
Mallinson, W. D. (A)  
Martin, B. C. (A)  
Martyn, D. F. (A)  
Maynard, F. S. (A)  
McDonald, A. S. (M)  
Mingay, O. F. (M)  
Moore, E. J. T. (M)  
Munro, G. H. (A)  
Norville, C. H. (A)  
Parish, H. C. (A)  
Scott, A. W. (A)  
Smith, F. L. (M)  
Stirk, F. J. (A)  
Thom, F. W. P. (M)  
Whittorn, R. H. (A)

## QUEENSLAND

Burmester, O. C. (A)  
Elliott, F. E. (A)  
Ross, S. J. (M)  
Webster, H. C. (A)

## SOUTH AUSTRALIA

Haussen, M. J. (A)

## TASMANIA

Jebb, T. K. (A)  
Tuck, H. P. (A)

## VICTORIA

Badenach, R. M. (A)  
Cherry, R. O. (A)  
Clyne, E. M. (A)  
Collins, R. J. (A)  
Glover, G. A. J. (A)  
Grace, A. (A)  
Hooper, E. M. (A)  
Kerr, A. D. (A)  
McCulloch, G. R. (A)  
McKenzie, A. J. (A)  
Sweeney, W. M. (M)  
Woodward, C. (A)  
Webb, A. L. C. (A)

## WESTERN AUSTRALIA

Curedale, R. G. (A)  
Greer, N. C. (A)  
Hayman, W. G. I. (A)

## AUSTRIA

Filipowsky, R. (S)  
Klaus, E. (A)  
Szekely, A. (A)

## BELGIUM

Bernaert, A. L. J. (A)  
Brillard, R. (F)  
Embrechts, A. C. (A)  
Vanden Meersche, A. J.  
(A)  
Van Meel, G. M. (A)

## BOLIVIA

Powell, A. E. (A)

## BRAZIL

Rio de Janeiro  
Armstrong, L. H. (A)  
Borges, V. A. (A)  
Cavalcanti, A. P. (A)

de Medeiros, L. A. (A)  
de Oliveira, A. M. (M)  
de Sales, F. M., Jr. (A)  
Hill, J. H. (A)  
Lima, A. C. (A)  
Pareto, J. V. (A)  
Pinto, O. D. (A)  
Schulman, L. (A)

## São Paulo

De Mello, W. (A)  
Jones, L. Y., Jr. (A)  
Mello, G. H. (A)

## BRITISH HONDURAS

Smith, E. L. (A)

## BRITISH WEST INDIES

### BARBADOS

Archer, T. A. (A)

### JAMAICA

Grinan, J. F. (M)  
Guilfoyle, T. J. (M)

### ST. KITTS

Stewart, C. J. (J)

### TRINIDAD

Fung, J. H. (A)

## CANADA

(See also Maritime  
Provinces)

### ALBERTA

Clayton, W. P. (A)  
Field, P. A. (A)  
McLachlin, A. D. (A)  
Mitchell, A. M. (A)  
Thomas, C. W. (A)

### BRITISH COLUMBIA

Geluch, A. (A)  
Gilbert, G. (A)  
Hings, D. L. (A)  
McCallum, B. C. (A)  
Mellor, S. J. (A)  
Rose, F. W. (A)

### Vancouver

Bain, J. R. (A)  
Bunn, E. (A)  
Hawkins, L. S. (M)  
Irvine, B. (A)  
Jackson, A. (A)  
Kitchen, J. E. (A)  
Marriott, J. S. (A)  
Mayne, L. F. (A)  
McLeish, C. W. (S)  
Tupper, B. R. (A)

### MANITOBA

Burneski, A. D. (A)  
Millar, J. P. (A)  
Salton, L. V. (M)  
Sheffield, A. G. (A)  
Smith, O. (A)

### ONTARIO

Anderson, J. F. (A)  
Crofts, C. T. (A)  
Crowe, F. C. (A)  
Daly, E. (A)  
Doan, G. F. (A)  
Ellis, A. B. (A)  
Foster, G. L. (A)  
Graham, B. (A)  
Jordan, E. C. (S)

## DENMARK

Kelterborn, W. H. (A)  
 Little, W. C. (A)  
 Marsland, S. (A)  
 Metzler, S. J. (A)  
 Mott, H. E. (A)  
 Olson, E. (A)  
 Parsons, A. B. (A)  
 Pollock, C. A. (A)  
 Pounsett, F. H. R. (A)  
 Richardson, W. G. (A)  
 Robinson, C. A. (A)  
 Rose, S. (A)  
 Rowland, L. J. (A)  
 Santo, R. E. (S)  
 Scott, C. A. (A)  
 Shane, W. A. (A)  
 Smith, B. F. (A)  
 Thomson, J. M. (A)  
 Tremblay, E. C. (J)  
 Underwood, C. (A)  
 Walker, R. B. (A)  
 Yaroslowski, A. B. (J)

### Ottawa

Cahoon, R. D. (A)  
 Cumming, J. E. (A)  
 Edwards, C. P. (F)  
 Field, G. S. (A)  
 Henderson, J. P. (M)  
 Laurie, W. L. (A)  
 Merriman, H. O. (A)  
 Olive, G. W. (A)  
 Ruedy, R. (A)  
 Rush, W. A. (F)  
 Smith, H. M. (A)  
 Steel, W. A. (M)  
 Taber, H. E. (A)

### Toronto

Ainsworth, A. L. (M)  
 Armstrong, D. (A)  
 Baldwin, C. O. (A)  
 Baranovsky, C. (S)  
 Bayley, A. K. (A)  
 Bayly, B. DeF. (M)  
 Bowers, E. J. (A)  
 Boyd, J. W. G. (A)  
 Caton, W. A. (A)  
 Choat, W. F. (A)  
 Christie, J. B. (A)  
 Claridge, R. E. (A)  
 Clark, B. (A)  
 Clements, M. (A)  
 Cumming, A. A. (A)  
 Daugharty, G. B. (A)  
 Dawson, H. S. (A)  
 Dean, H. B. (A)  
 Eales, J. W. (A)  
 Ford, J. S. (A)  
 Geiger, D. G. (A)  
 Hackbusch, R. A. (M)  
 Harris, E. (A)  
 Hobbs, F. B. (A)  
 Hurlbut, A. L. (A)  
 Irwin, G. J. (A)  
 Klingelhoefter, R. H. (A)  
 Knap, H. B. (A)  
 Kohl, W. H. (A)  
 Leslie, J. M. (A)  
 Linton, W. R. (A)  
 Longstaffe, J. R. (A)  
 Mogridge, J. N. (A)  
 Norris, A. G. (A)  
 Paisley, S. R. (A)  
 Pollock, A. (A)  
 Potter, N. M. (A)  
 Poulter, R. C. (A)  
 Price, L. M. (A)  
 Rogers, E. S. (M)  
 Toby, A. S. R. (A)  
 Watson, J. E. (A)  
 Wilkinson, A. E. (A)  
 Williams, J. K. (A)  
 Wilson, J. C. (A)

### QUEBEC

Acton, E. H. (A)

Aston, J. P. (A)  
 Beaulieu, W. R. (A)  
 Bird, C. H. R. (A)  
 Clarke, J. L. (A)  
 Dion, A. J. (A)  
 Dix, G. (A)  
 Farmer, E. W. (A)  
 Frenette, C. (A)  
 Hodgson, E. (A)  
 Jaderholm, H. W. (A)  
 Linklater, T. B. (A)  
 Marceau, J. P. (A)  
 McWilliam, E. A. (A)  
 Moore, W. H. (A)  
 Ratchford, W. J. (A)  
 Wade, D. (A)  
 Wilson, C. T. R. (A)  
 Wilson, W. R. (A)

### Montreal

Andresen, S. (A)  
 Baily, F. A. A. (A)  
 Barrow, F. A. (A)  
 Bennett, G. S. (A)  
 Campbell, J. A. (A)  
 Chauvin, S. B. (A)  
 Conroy, J. M. (A)  
 Cooper, S. J. (A)  
 Desaulniers, R. R. (A)  
 East, L. A. W. (A)  
 Fawcett, G. M. (A)  
 Fisher, C. B. (A)  
 Goldin, H. C. (A)  
 Hammond, R. E. (A)  
 Hicks, B. C. (A)  
 Kruming, A. O. (A)  
 Marcotte, J. (A)  
 McLean, M. D. (S)  
 Nichols, W. A. (A)  
 Oxley, A. B. (M)  
 Payne, L. S. (M)  
 Patience, A. M. (M)  
 Prinsky, H. B. (A)  
 Sharp, V. (A)  
 Short, H. M. (M)  
 Sillitoe, S. (A)  
 Simons, F. W. (A)  
 Smith, F. A. (A)  
 Soucy, C. I. (A)  
 Spencer, L. (M)  
 Thompson, J. H. (A)  
 Vennes, H. J. (M)  
 Wallace, G. A. (A)  
 Welsh, R. R. (A)  
 Wilcox, B. B. (A)

### SASKATCHEWAN

Erickson, R. A. (A)  
 Haggerty, A. S. (A)  
 Stevenson, G. (A)

### CANAL ZONE

Arps, M. W. (A)  
 Byer, E. D. (A)  
 Tarr, L. H. (A)  
 Young, J. W. (A)

### CEYLON

Jayasekera, D. P. (A)

### CHILE

Brito, A. R. (M)

### CHINA

(See also Hong Kong)

Bocharoff, G. M. (A)  
 Bong, T. (A)  
 Chen, S. (A)  
 Chen, T. K. (A)  
 Chen, Z. Y. (S)  
 Chien, F. C. (A)  
 Chu, K. T. (A)  
 Chung, T. T. (A)

Deane, T. Y. (A)  
 Eoyang, T. T. (A)  
 Hsu, A. L. (S)  
 Hsu, C. L. (A)  
 Jen, C. K. (A)  
 King, Y. C. (A)  
 Knipp, A. R. (M)  
 Kong, Y. (A)  
 Lee, S. M. (A)  
 Mao, Y. Y. (S)  
 Nee, S. (A)  
 Sanborn, J. W. (A)  
 Ting, C. Y. (S)  
 Wang, T. J. (A)  
 Ward, Z. (A)  
 Wu, C. H. (A)  
 Yeh, Y. C. (A)

### Shanghai

Brown, N. D. (A)  
 Chang, S. T. (S)  
 Chang, T. C. (M)  
 Chen, Z. M. (S)  
 Chien, T. P. (A)  
 Chu, H. C. (A)  
 Chu, M. C. (A)  
 Ede, F. C. (A)  
 Everett, L. Jr. (A)  
 Fang, T. (S)  
 Fedoroff, L. N. (A)  
 Hung, M. Y. (A)  
 Jeang, B. T. (A)  
 Lo, T. Z. (A)  
 Loo, T. C. (A)  
 Lor, P. L. (J)  
 Miao, T. V. (A)  
 Shen, S. Z. (A)  
 Spagnoletti, P. H. (A)  
 Tsao, Z. C. (A)  
 Tsia, H. L. (A)  
 Wang, P. H. (A)  
 Wang, T. S. (A)  
 Wang, W. Y. (S)  
 Woo, E. L. (A)

## COLOMBIA

Jaramillo, R. (M)  
 Shire, L. E. (A)

## COSTA RICA

Carazo, L. A. (A)  
 Carranza, J. J. (M)

## CUBA

Chisholm, E. E. (A)  
 Cobas, R. I. (J)  
 Godinez, S. H. (A)

## CYPRUS

Dennis, F. L. (A)

## CZECHOSLOVAKIA

Ficek, F. (A)  
 Siegel, E. (M)  
 Strnad, J. (A)  
 Svoboda, J. (M)  
 Young, A. J. (A)  
 Zacek, A. (M)

## DENMARK

Morch, V. H. (A)  
 Pedersen, G. V. C. (A)  
 Poulsen, V. (F)  
 Rybner, J. C. F. (A)  
 Schou, C. (A)  
 Steffensen, J. F. J. (A)

### Copenhagen

Bramslø, G. E. (A)  
 Christensen, J. P. (A)



# DENMARK

Christiansen, E. L. (A)  
 Hellstrom, G. A. (A)  
 Jorgensen, L. (A)  
 Kjeldsen, T. F. (A)  
 Pedersen, M. P. (A)  
 Pedersen, P. O. (F)  
 Svenningsen, K. (A)

## EAST INDIES

### SUMATRA

Lytle, T. M. (A)

## ECUADOR

Williams, E. S. B. (A)

## EGYPT

De Barro, F. (A)  
 Mathias, E. L. A. (A)  
 Sheiha, A. M. (A)

## ENGLAND

### BERKSHIRE

Barton, F. S. (F)  
 Chandler, C. K. (A)  
 Hoddinott, J. K. (A)  
 Simmonds, E. J. (M)

### BUCKINGHAM

Diver, F. G. (A)  
 Dobell, H. (M)  
 Lett, F. T. (A)  
 Slow, E. C. (A)  
 Thompson, J. L. (A)

### CAMBRIDGE

Appleton, E. V. (F)  
 Carter, C. J. (M)  
 Piddington, J. H. (A)  
 Ratcliffe, J. A. (A)  
 Turner, L. B. (A)  
 Whitehead, E. D. (A)

## CHANNEL ISLANDS

Foot, G. H. (S)

### CHESHIRE

Noden, J. (A)  
 Stamford, N. C. (M)  
 Vernon, B. H. (A)  
 Williams, F. C. (A)

### CORNWALL

Hopwood, C. H. (A)  
 Wills, R. J. (A)

### DERBY

Hulme, A. B. (A)

### DEVON

Maxey, H. J. (A)  
 Pressler, W. C. (A)  
 Short, H. E. (A)  
 Wortley-Talbot, J. R. (A)

### DORSET

Dawes, R. M. (M)  
 Musselwhite, W. E. (A)  
 Richens, J. R. (A)  
 Woodward, P. J. (M)

### DURHAM

Hall, N. (A)  
 Roberts, G. N. (A)

## ESSEX

Amey, S. H. (A)  
 Benham, W. E. (A)  
 Bradfield, G. (A)  
 Budden, G. H. (A)  
 Bulgin, A. F. (M)  
 Ditcham, W. T. (M)  
 Dawe, F. W. (A)  
 Dyson, G. N. (A)  
 Ewen, M. E. (A)  
 Fielding, T. J. (A)  
 Forster, H. J. (A)  
 Green, E. (A)  
 Harries, J. H. O. (A)  
 Herczeg, A. (A)  
 Hodgson, A. D. (A)  
 Ladner, A. W. (A)  
 Lancaster, E. S. (A)  
 Lassman, H. H. (A)  
 Lea, N. (A)  
 Leonard, S. L. (A)  
 Mercer, C. J. (M)  
 Murphy, F. M. G. (A)  
 O'Donovan, D. E. (A)  
 Ong, H. Y. (A)  
 O'Neill, R. F. (A)  
 Parkin, T. D. (A)  
 Robb, F. G. (A)  
 Robertson, N. C. (A)  
 Scott-Taggart, J. (F)  
 Shore, A. (A)  
 Smith, S. B. (M)  
 Straw, F. W. (A)  
 Vigurs, R. F. (A)  
 Wells, W. J. M. (A)

## GLOUCESTER

Sheppard, J. A. (A)  
 Tozer, B. L. (S)

## HAMPSHIRE

Bartlett, A. C. (A)  
 Borgars, S. J. (A)  
 Catt, J. E. (M)  
 Challans, B. W. S. (A)  
 Chapman, J. P. J. (A)  
 Cole, W. A. (A)  
 Dockree, G. E. (A)  
 Jones, A. R. (A)  
 Newnham, L. E. (A)  
 Ogg, J. G. (M)  
 Pritchard, W. H. (A)  
 Rowland, E. S. (A)  
 Stewart, J. (A)  
 Taylor, A. O. (A)  
 Wade, C. F. N. (M)  
 Warner, H. J. (M)  
 Williams, C. (A)  
 Woods, C. H. (A)

## HERTFORD

Amis, F. H. (M)  
 Bond, D. H. T. (A)  
 Clarke, G. E. (A)  
 Findell, A. H. (A)  
 Hall, D. L. (A)  
 Murphy, F. (A)  
 Richardson, W. D. (A)  
 Saltmarsh, B. (A)  
 Stanesby, H. (A)  
 Taylor, W. (A)  
 White, H. D. (A)

## KENT

Binyon, B. (M)  
 Bradford, R. W. (A)  
 Brigham, C. E. (M)  
 Gibson, W. T. (A)  
 Goodchild, F. D. (A)  
 Jones, A. B. (A)  
 Minter, R. W. (M)  
 Partridge, N. G. (A)  
 Powers, S. J. (A)  
 Scroggie, M. G. (A)

Thwaites, H. J. (A)  
 Turle, E. H. (M)  
 Wicks, F. W. (A)

## LANCASHIRE

Anderson, A. G. (A)  
 De Wardt, R. G. (M)  
 Evans, Y. W. P. (M)  
 Hall, A. (M)  
 Hemmerdinger, C. A. (A)  
 Leach, H. (A)  
 Leech, T. D. (A)  
 Morris, A. (A)  
 Percival, W. R. (A)  
 Simpson, A. V. (M)  
 Smith, W. A. (A)  
 Taylor, R. H. (M)  
 Thomsett, H. S. (A)  
 Wells, W. E. (A)  
 Witty, R. (A)

## LEICESTER

Atkinson, C. T. (A)

## LINCOLN

Frankis, E. E. (A)  
 Harrison, P. L. (A)  
 Pales, F. A. (A)

## LONDON

Adorjan, P. (A)  
 Alway, E. J. (A)  
 Andersen, R. C. (A)  
 Armstrong, F. X. J. (A)  
 Beck, A. H. W. (S)  
 Bedford, L. H. (M)  
 Beebe, R. D. (S)  
 Beer, H. G. (A)  
 Bowden, H. F. (A)  
 Briggs, L. A. (M)  
 Burgess, A. G. (A)  
 Burnett, E. F. (A)  
 Carter, F. C. (A)  
 Clark, F. E. T. (A)  
 Coates, C. (A)  
 Cohen, I. J. (A)  
 Collings, R. H. P. (A)  
 Cook, A. (A)  
 Crampton, W. J. (M)  
 D'Arcy, N. W. (A)  
 de Burgh, D. H. (M)  
 de Laszlo, S. P. (M)  
 Denman, R. P. G. (A)  
 Dorrington, W. H. (A)  
 Dowsett, H. M. (M)  
 Dunkley, E. J. (A)  
 Duran, J. (A)  
 Dyson, A. A. (A)  
 Eckersley, P. P. (F)  
 Edes, N. H. (A)  
 Elliott, B. C. (A)  
 Ellen, R. G. (A)  
 Gambrell, H. W. (M)  
 Gee, H. T. P. (A)  
 Gill, A. J. (M)  
 Godfrey, F. E. (A)  
 Gootnick, S. (A)  
 Gracie, J. A. (A)  
 Griffiths, W. H. F. (M)  
 Hamilton, D. (A)  
 Harris, P. W. (M)  
 Harrison, K. W. (A)  
 Heaton-Armstrong, L. J. (A)  
 Hickson, P. W. (A)  
 Hughes, L. E. C. (A)  
 Humphrey, H. C. (A)  
 Hurren, S. A. (A)  
 Jefferson, S. (A)  
 Johnson, D. H. (A)  
 Jones, I. C. A. (A)  
 Kaye, J. B. (A)  
 Keeling, C. H. (A)  
 Kirke, H. L. (M)

Klein, R. H. (M)  
 Knight, S. G. (A)  
 Knox, J. B. (A)  
 Landmann, A. (A)  
 Lawrence, E. A. (A)  
 Lee, A. G. (F)  
 Lemon, C. G. (A)  
 Love, H. J. (A)  
 Lyons, C. L. (M)  
 Madgwick, G. (M)  
 Marconi, G. (F)  
 McLean, F. C. (A)  
 McMichael, L. (F)  
 Mercer, J. F. W. (S)  
 Merdler, L. R. (A)  
 Meyer, L. W. (M)  
 Mirk, D. B. (M)  
 Mole, J. H. (S)  
 Nancarrow, F. E. (M)  
 Oxley, R. F. (A)  
 O'Reilly, C. (A)  
 Osmond, C. E. (A)  
 Petersen, T. G. (A)  
 Picken, W. J. (A)  
 Pocock, H. S. (M)  
 Pollard, B. S. (A)  
 Prince, H. S. (A)  
 Price, R. J. C. (A)  
 Radford, E. R. (A)  
 Reid, D. G. (A)  
 Rhys-Jones, J. E. (A)  
 Rickard, C. E. (M)  
 Robb, J. G. (M)  
 Roberts, R. S. (A)  
 Robinson, D. M. (A)  
 Robinson, F. H. V. (A)  
 Rolfe, R. G. (A)  
 Rymer, J. J. (A)  
 Schaffer, P. (A)  
 Schwarz, H. F. (A)  
 Scarle, R. F. J. (A)  
 Shorter, D. E. L. (A)  
 Slee, J. A. (F)  
 Smyth, C. N. (A)  
 Stott, H. T. (A)  
 Strong, C. E. (M)  
 Struthers, G. A. (M)  
 Tanton, J. H. (A)  
 Thompson, F. S. (A)  
 Tingey, R. (M)  
 Troutbeck, W. H. (A)  
 Twiss, A. R. (M)  
 Tyrer, A. R. (A)  
 Varley, W. E. C. (A)  
 Venn, W. M. (A)  
 Walker, T. H. (A)  
 Wallace, A. T. (A)  
 Walmsley, T. (M)  
 Wardle, P. G. (A)  
 Weale, D. A. (A)  
 Webb, C. B. N. (A)  
 Webb, J. H. (A)  
 Weese, R. (M)  
 Wey, R. J. (A)  
 Wilson, P. (A)  
 Wilson, W. P. (A)

## MIDDLESEX

Barnard, R. M. (A)  
 Bayley, C. J. (A)  
 Baxter, H. W. (A)  
 Bennington, T. W. (A)  
 Booth, C. F. (A)  
 Brown, W. J. (M)  
 Chadder, E. G. (A)  
 Connell, W. H. (A)  
 Cooper, J. A. (A)  
 Cooper, W. H. B. (A)  
 Emery, E. J. (M)  
 Fayers, A. A. (A)  
 Ferguson, R. A. (A)  
 Griffiths, P. E. A. (M)  
 Howse, H. A. G. (M)  
 Jackson, H. E. A. (A)  
 Lea, G. (A)  
 Lunt, C. (A)

McNeill, G. T. (A)  
 Megaw, E. C. S. (A)  
 Montgomery, A. W. (M)  
 Mumford, A. H. (A)  
 Nottage, W. H. (A)  
 Oliphant, W. D. (A)  
 Rapson, E. T. A. (A)  
 Singh, W. K. (A)  
 Starr, C. H. (A)  
 Summerfield, J. L. (A)  
 Toombs, R. (A)  
 Watson, G. H. (A)  
 Wright, A. (A)  
 Wright, S. R. (M)

## MONMOUTH

Cam, F. A. (A)

## NORTHAMPTON

Calver, F. N. (M)

## NORTHUMBERLAND

Bowman, A. (A)  
 Challands, A. C. (A)  
 Quinn, J. R. (A)  
 Swanson, J. W. M. (A)  
 Thew, C. L. (A)

## NOTTINGHAM

Litchfield, G. A. (A)  
 Pinnock, L. W. J. (A)  
 Scotney, R. (A)  
 Webster, R. (A)

## OXFORD

Moore, R. C. (A)  
 Moullin, E. B. (M)  
 Woodhead, H. C. (A)

## SHROPSHIRE

Faulkner, H. (M)  
 Mitchell, A. R. (A)

## SOMERSET

Hawkeswood, A. E. (A)  
 Humphreys, H. F. (M)  
 Mainstone, A. E. (A)  
 Scott, P. R. (A)

## STAFFORD

Brown, W. F. (A)  
 McDonald, D. M. (A)  
 Norman, F. A. (A)  
 Parsons, D. R. (A)

## SUFFOLK

Bainbridge-Bell, L. H. (A)  
 Larnder, H. (A)  
 Parry, R. C. (A)  
 Rayment, K. I. (A)  
 Squires, M. (A)  
 Townsend, F. T. G. (M)  
 Wilkins, A. F. (A)

## SURREY

Agate, C. S. (M)  
 Baxter, C. (M)  
 Carpenter, R. E. H. (M)  
 Clark, R. G. (A)  
 Cobb, F. A. (M)  
 Coursey, P. R. (A)  
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 Crawford, C. G. (A)  
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(A)

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## ANALYSIS OF MEMBERSHIP BY GRADES

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Members .....	637
Associates .....	4098
Juniors .....	34
Students .....	293
Total .....	5196

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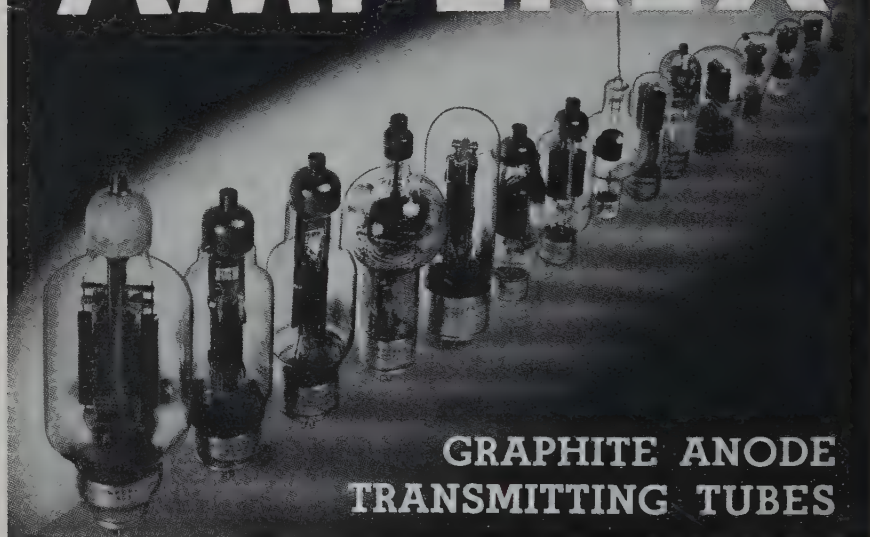
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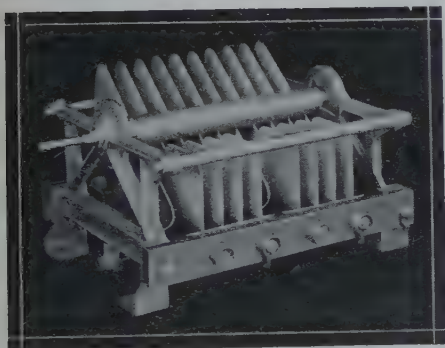
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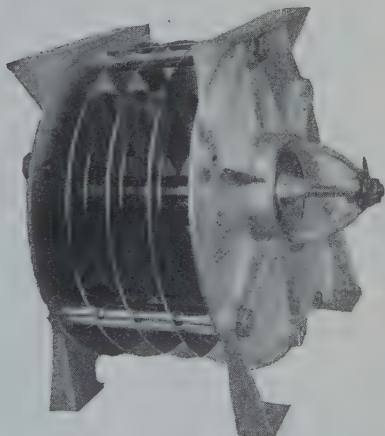
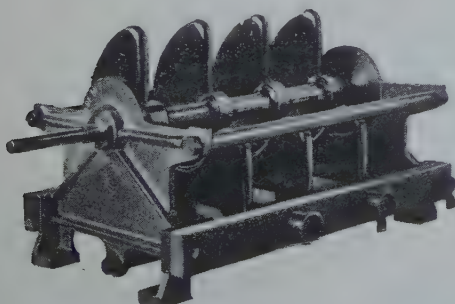


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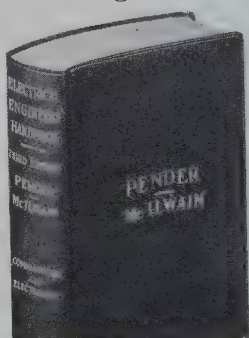


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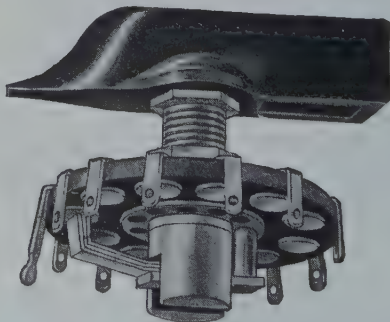


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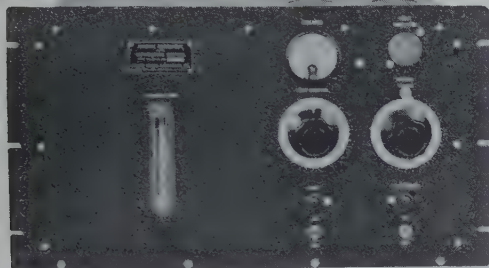
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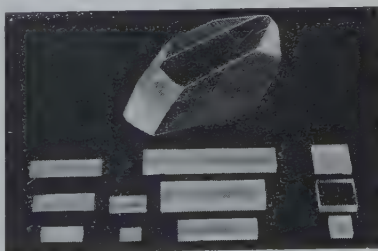


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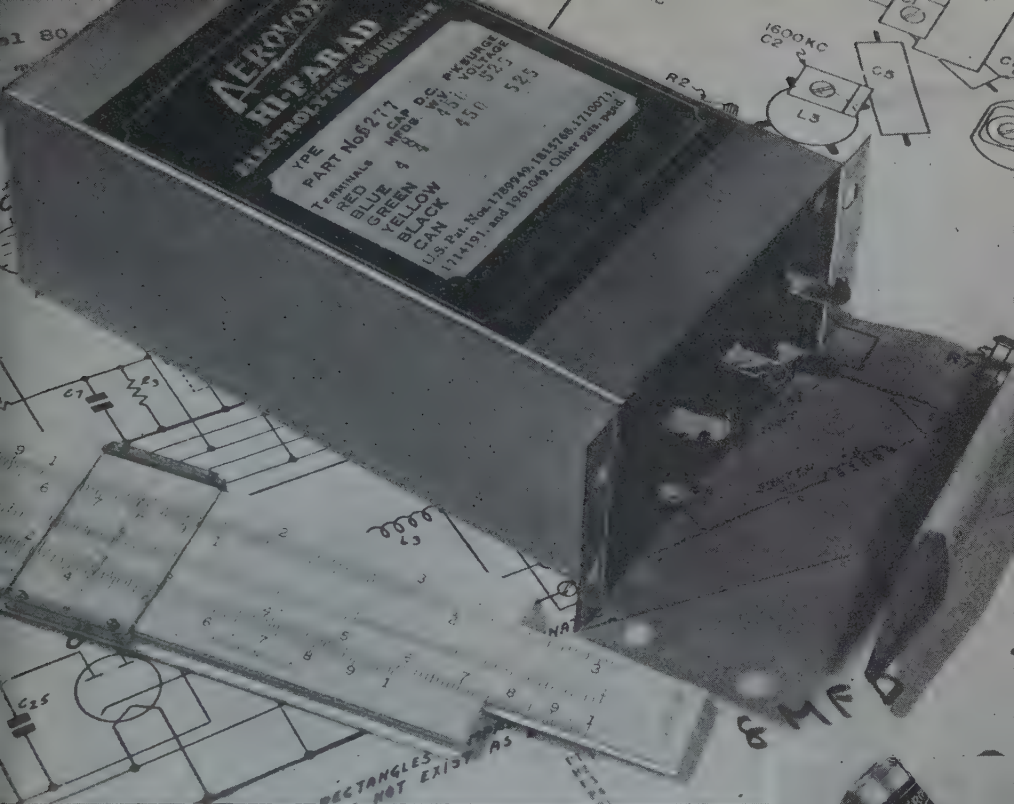
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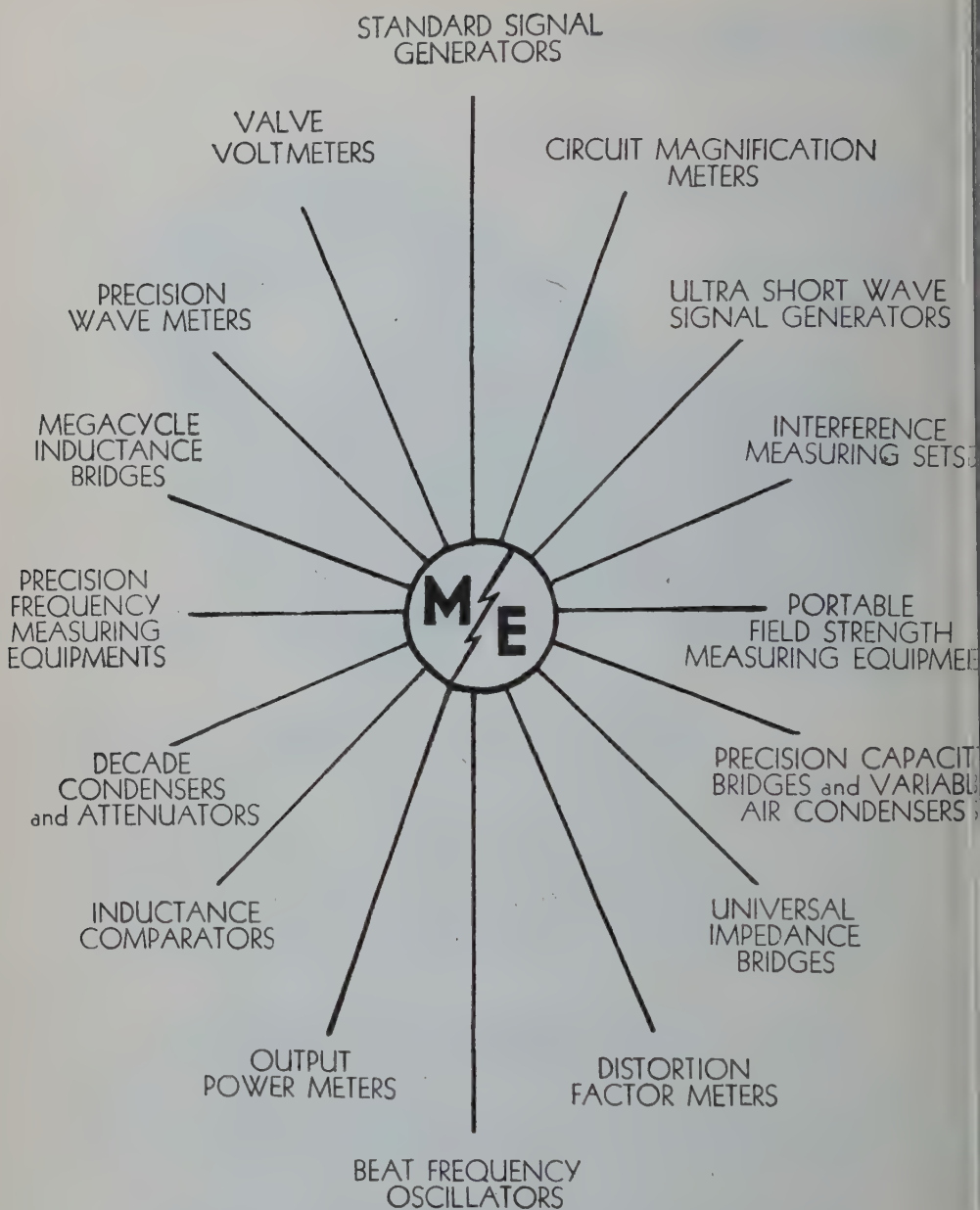
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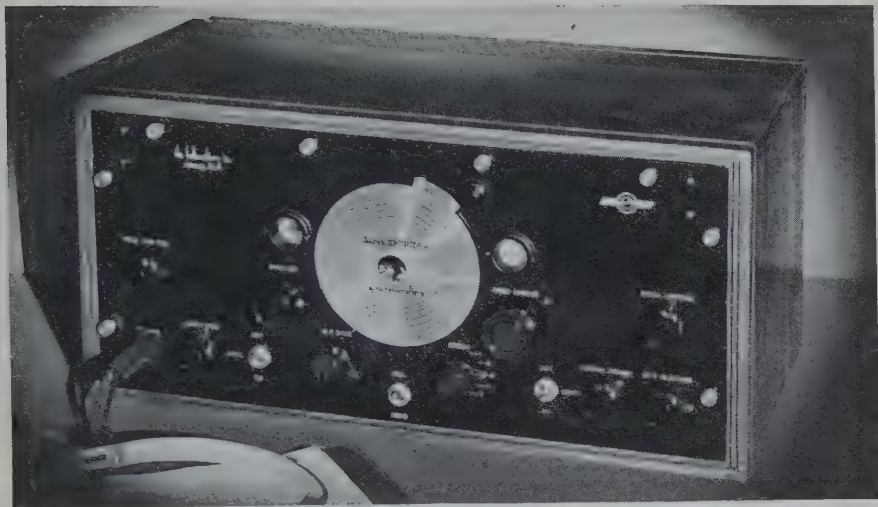




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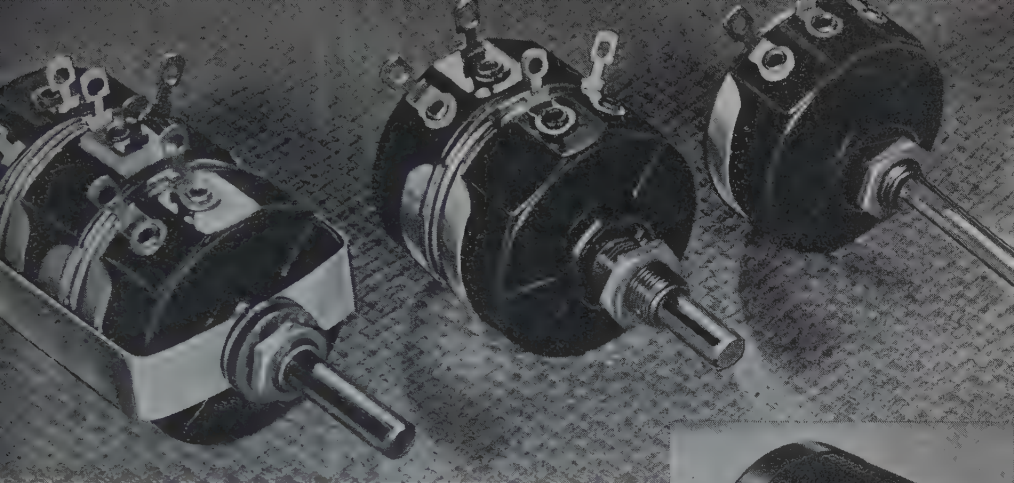
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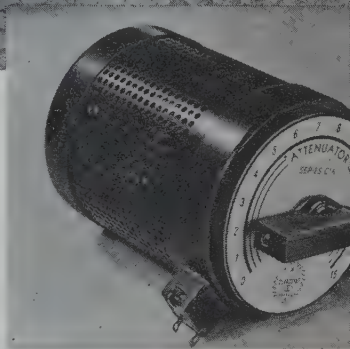
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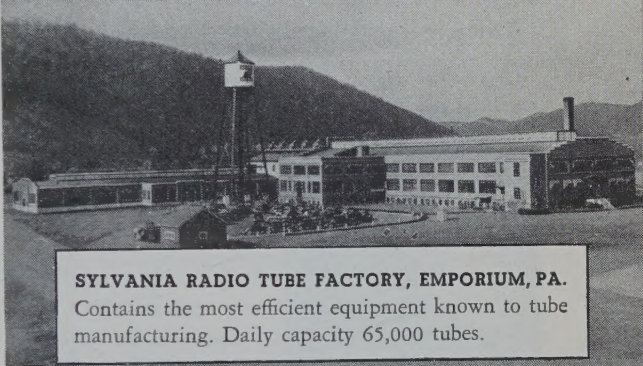
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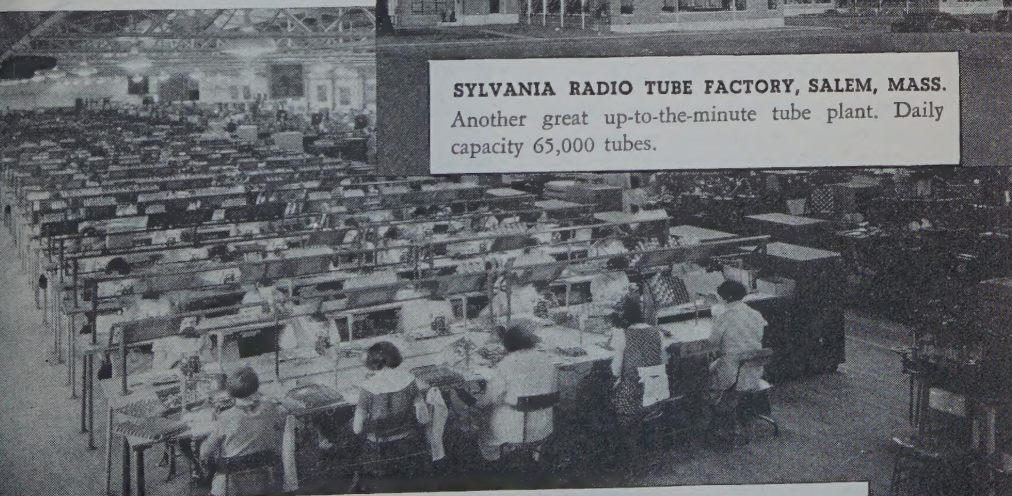
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